

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $14 + x = 28$  $x = \underline{\hspace{2cm}}$	<b>2</b> $2^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{16}{60} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $15 + x = 32$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{11}{88} =$  $\underline{\hspace{2cm}}$	<b>6</b> $3^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-2 + 16 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $16 + x = 27$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{3}{6} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 2 = 30$  $x = \underline{\hspace{2cm}}$	<b>11</b> $17^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{15}{18} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 414 \\ \times 25 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{5}{15} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 422 \\ \times 52 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 24 = 39$  $x = \underline{\hspace{2cm}}$
<b>17</b> $6 + -8 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $16 - x = 1$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-5 + -5 =$  $\underline{\hspace{2cm}}$	<b>20</b> $12^2 =$  $\underline{\hspace{2cm}}$

Student:

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Date:

- 21** Write fraction as a mixed number

$$\frac{17}{3} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.31 =$$

\_\_\_\_\_

- 23**
- $$1.06 + 1.5 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.53 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.201 \\ \times 0.30 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$3.45 - 1.3 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{12}{20} =$$

\_\_\_\_\_

- 28**
- $$\frac{4}{5} \cdot \frac{7}{3} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.04 \\ \times 0.4 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$^{-}4 - ^{-}6 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 2\frac{1}{7} \\ + 7\frac{3}{7} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{8}{10} =$$

\_\_\_\_\_

- 33**
- $$7 - ^{-}16 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 62 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{22}{5} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 9\frac{5}{10} \\ - 6\frac{2}{10} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.2 \overline{)0.42}$$

\_\_\_\_\_

- 38**
- $$^{-}14 - 19 =$$

\_\_\_\_\_

- 39**
- $$40 \overline{)124}$$

\_\_\_\_\_

- 40**
- $$\frac{8}{9} \div \frac{7}{8} =$$

\_\_\_\_\_

Student:

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Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 4 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	14	1	0	21.	$5\frac{2}{3}$	2	0
2.	4	1	0	22.	$\frac{31}{100}$	2	0
3.	$\frac{4}{15}$	2	0	23.	2.56	2	0
4.	17	1	0	24.	$\frac{53}{100}$	2	0
5.	$\frac{1}{8}$	1	0	25.	0.3603	3	0
6.	9	1	0	26.	2.15	2	0
7.	14	2	0	27.	0.6	2	0
8.	11	1	0	28.	$\frac{28}{15}$ or $1\frac{13}{15}$	2	0
9.	$\frac{1}{2}$	1	0	29.	0.416	2	0
10.	32	1	0	30.	2	3	0
11.	289	1	0	31.	$9\frac{4}{7}$	1	0
12.	$\frac{5}{6}$	1	0	32.	0.8	2	0
13.	10,350	1	0	33.	23	3	0
14.	$\frac{1}{3}$	1	0	34.	31	2	0
15.	21,944	1	0	35.	$4\frac{2}{5}$	2	0
16.	15	1	0	36.	$3\frac{3}{10}$	2	0
17.	-2	2	0	37.	2.1	3	0
18.	15	1	0	38.	-33	3	0
19.	-10	2	0	39.	3 r4; 3.1; $3\frac{4}{40}$ ; $3\frac{1}{10}$	3	0
20.	144	1	0	40.	$\frac{64}{63}$ or $1\frac{1}{63}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $17 + x = 42$  $x = \underline{\hspace{2cm}}$	<b>2</b> $5^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{14}{26} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $6 + x = 40$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{3}{9} =$  $\underline{\hspace{2cm}}$	<b>6</b> $2^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-6 + 4 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $37 + x = 40$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{11}{66} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 17 = 4$  $x = \underline{\hspace{2cm}}$	<b>11</b> $16^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{6}{34} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 454 \\ \times 20 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{5}{20} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 542 \\ \times 42 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 12 = 24$  $x = \underline{\hspace{2cm}}$
<b>17</b> $10 + -8 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $21 - x = 3$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-14 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $18^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{17}{3} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.31 =$$

\_\_\_\_\_

- 23**
- $$3.08 + 0.6 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.79 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.214 \\ \times 0.10 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$5.37 - 3.3 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{1}{4} =$$

\_\_\_\_\_

- 28**
- $$\frac{3}{2} \cdot \frac{5}{7} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.32 \\ \times 0.3 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-3 - -12 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 3 \frac{1}{8} \\ + 2 \frac{4}{8} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{8}{10} =$$

\_\_\_\_\_

- 33**
- $$8 - -5 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 68 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{7}{2} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 5 \frac{5}{9} \\ - 4 \frac{3}{9} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.2 \overline{)0.50}$$

\_\_\_\_\_

- 38**
- $$-11 - 1 =$$

\_\_\_\_\_

- 39**
- $$22 \overline{)341}$$

\_\_\_\_\_

- 40**
- $$\frac{9}{10} \div \frac{2}{8} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 5 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	25	1	0	21.	$5\frac{2}{3}$	2	0
2.	25	1	0	22.	$\frac{31}{100}$	2	0
3.	$\frac{7}{13}$	2	0	23.	3.68	2	0
4.	34	1	0	24.	$\frac{79}{100}$	2	0
5.	$\frac{1}{3}$	1	0	25.	0.1214	3	0
6.	4	1	0	26.	2.07	2	0
7.	-2	2	0	27.	0.25	2	0
8.	3	1	0	28.	$\frac{15}{14}$ or $1\frac{1}{14}$	2	0
9.	$\frac{1}{6}$	1	0	29.	0.396	2	0
10.	21	1	0	30.	9	3	0
11.	256	1	0	31.	$5\frac{5}{8}$	1	0
12.	$\frac{3}{17}$	1	0	32.	0.8	2	0
13.	9080	1	0	33.	13	3	0
14.	$\frac{1}{4}$	1	0	34.	34	2	0
15.	22,764	1	0	35.	$3\frac{1}{2}$	2	0
16.	12	1	0	36.	$1\frac{2}{9}$	2	0
17.	2	2	0	37.	2.5	3	0
18.	18	1	0	38.	-12	3	0
19.	-27	2	0	39.	15 r11; 15.5; $15\frac{11}{22}$ ; $15\frac{1}{2}$	3	0
20.	324	1	0	40.	$\frac{72}{20}$ ; $3\frac{12}{20}$ ; $3\frac{3}{5}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $27 + x = 37$  $x = \underline{\hspace{2cm}}$	<b>2</b> $5^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{10}{56} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $26 + x = 30$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{2}{8} =$  $\underline{\hspace{2cm}}$	<b>6</b> $4^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-5 + 12 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $29 + x = 36$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{11}{66} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 11 = 16$  $x = \underline{\hspace{2cm}}$	<b>11</b> $19^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{6}{58} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 140 \\ \times 25 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{5}{15} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 432 \\ \times 42 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 35 = 47$  $x = \underline{\hspace{2cm}}$
<b>17</b> $18 + -13 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $17 - x = 5$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-9 + -15 =$  $\underline{\hspace{2cm}}$	<b>20</b> $11^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{24}{5} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.37 =$$

\_\_\_\_\_

- 23**
- $$4.09 + 0.7 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.17 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.220 \\ \times 0.30 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$2.63 - 1.7 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{1}{5} =$$

\_\_\_\_\_

- 28**
- $$\frac{5}{6} \cdot \frac{8}{6} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.42 \\ \times 0.1 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$^{-}4 - ^{-}3 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 7\frac{5}{9} \\ + 2\frac{2}{9} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{3}{4} =$$

\_\_\_\_\_

- 33**
- $$11 - ^{-}20 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 28 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{27}{2} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 7\frac{3}{11} \\ - 3\frac{1}{11} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.5 \overline{)0.55}$$

\_\_\_\_\_

- 38**
- $$^{-}19 - 5 =$$

\_\_\_\_\_

- 39**
- $$35 \overline{)413}$$

\_\_\_\_\_

- 40**
- $$\frac{7}{8} \div \frac{4}{5} =$$

\_\_\_\_\_



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*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 6 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	10	1	0	21.	$4\frac{4}{5}$	2	0
2.	25	1	0	22.	$\frac{37}{100}$	2	0
3.	$\frac{5}{28}$	2	0	23.	4.79	2	0
4.	4	1	0	24.	$\frac{17}{100}$	2	0
5.	$\frac{1}{4}$	1	0	25.	0.366	3	0
6.	16	1	0	26.	0.93	2	0
7.	7	2	0	27.	0.2	2	0
8.	7	1	0	28.	$\frac{40}{36}$ ; $1\frac{4}{36}$ ; $1\frac{2}{18}$ ; $1\frac{1}{9}$	2	0
9.	$\frac{1}{6}$	1	0	29.	0.142	2	0
10.	27	1	0	30.	-1	3	0
11.	361	1	0	31.	$9\frac{7}{9}$	1	0
12.	$\frac{3}{29}$	1	0	32.	0.75	2	0
13.	3500	1	0	33.	31	3	0
14.	$\frac{1}{3}$	1	0	34.	14	2	0
15.	18,144	1	0	35.	$13\frac{1}{2}$	2	0
16.	12	1	0	36.	$4\frac{2}{11}$	2	0
17.	5	2	0	37.	1.1	3	0
18.	12	1	0	38.	-24	3	0
19.	-24	2	0	39.	11 r28; 11.8; $11\frac{28}{35}$ ; $11\frac{4}{5}$	3	0
20.	121	1	0	40.	$\frac{35}{32}$ ; $1\frac{3}{32}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $14 + x = 40$  $x = \underline{\hspace{2cm}}$	<b>2</b> $6^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{12}{50} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $39 + x = 48$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{3}{9} =$  $\underline{\hspace{2cm}}$	<b>6</b> $4^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-3 + 6 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $13 + x = 32$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{11}{77} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 9 = 33$  $x = \underline{\hspace{2cm}}$	<b>11</b> $18^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{16}{60} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 623 \\ \times 43 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{2}{4} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 213 \\ \times 35 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 28 = 45$  $x = \underline{\hspace{2cm}}$
<b>17</b> $12 + -16 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $17 - x = 3$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-15 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $20^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{8}{3} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.51 =$$

\_\_\_\_\_

- 23**
- $$1.03 + 1.9 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.21 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.422 \\ \times 0.20 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$2.78 - 1.8 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{4}{16} =$$

\_\_\_\_\_

- 28**
- $$\frac{7}{4} \cdot \frac{3}{4} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.01 \\ \times 0.5 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-7 - -11 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 1 \frac{1}{12} \\ + 3 \frac{4}{12} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{9}{10} =$$

\_\_\_\_\_

- 33**
- $$14 - -6 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 44 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{5}{4} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 9 \frac{5}{10} \\ - 6 \frac{2}{10} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.2 \overline{)0.44}$$

\_\_\_\_\_

- 38**
- $$-15 - 4 =$$

\_\_\_\_\_

- 39**
- $$22 \overline{)451}$$

\_\_\_\_\_

- 40**
- $$\frac{8}{9} \div \frac{6}{7} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

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**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 7 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	26	1	0	21.	$2\frac{2}{3}$	2	0
2.	36	1	0	22.	$\frac{51}{100}$	2	0
3.	$\frac{6}{25}$	2	0	23.	2.93	2	0
4.	9	1	0	24.	$\frac{21}{100}$	2	0
5.	$\frac{1}{3}$	1	0	25.	0.2844	3	0
6.	16	1	0	26.	0.98	2	0
7.	3	2	0	27.	0.25	2	0
8.	19	1	0	28.	$\frac{21}{16}$ or $1\frac{5}{16}$	2	0
9.	$\frac{1}{7}$	1	0	29.	0.505	2	0
10.	42	1	0	30.	4	3	0
11.	324	1	0	31.	$4\frac{5}{12}$	1	0
12.	$\frac{4}{15}$	1	0	32.	0.9	2	0
13.	26,789	1	0	33.	20	3	0
14.	$\frac{1}{2}$	1	0	34.	22	2	0
15.	7455	1	0	35.	$1\frac{1}{4}$	2	0
16.	17	1	0	36.	$3\frac{3}{10}$	2	0
17.	-4	2	0	37.	2.2	3	0
18.	14	1	0	38.	-19	3	0
19.	-28	2	0	39.	20 r11; 20.5; $20\frac{11}{22}$ ; $20\frac{1}{2}$	3	0
20.	400	1	0	40.	$\frac{56}{54}$ ; $1\frac{2}{54}$ ; $1\frac{1}{27}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $15 + x = 42$  $x = \underline{\hspace{2cm}}$	<b>2</b> $3^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{4}{50} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $17 + x = 21$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{4}{16} =$  $\underline{\hspace{2cm}}$	<b>6</b> $9^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-4 + 4 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $27 + x = 46$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{11}{22} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 12 = 13$  $x = \underline{\hspace{2cm}}$	<b>11</b> $19^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{10}{14} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 215 \\ \times 16 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{7}{21} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 250 \\ \times 41 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 40 = 44$  $x = \underline{\hspace{2cm}}$
<b>17</b> $11 + -14 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $48 - x = 14$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-10 + -12 =$  $\underline{\hspace{2cm}}$	<b>20</b> $20^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{13}{3} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.09 =$$

\_\_\_\_\_

- 23**
- $$2.09 + 0.3 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.61 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.244 \\ \times 0.10 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$5.22 - 1.7 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{1}{2} =$$

\_\_\_\_\_

- 28**
- $$\frac{6}{7} \cdot \frac{6}{5} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.12 \\ \times 0.5 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-18 - -7 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 1 \frac{3}{11} \\ + 3 \frac{2}{11} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{3}{10} =$$

\_\_\_\_\_

- 33**
- $$1 - -17 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 86 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{29}{5} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 6 \frac{5}{15} \\ - 1 \frac{1}{15} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.3 \overline{)0.12}$$

\_\_\_\_\_

- 38**
- $$-3 - 6 =$$

\_\_\_\_\_

- 39**
- $$25 \overline{)365}$$

\_\_\_\_\_

- 40**
- $$\frac{9}{9} \div \frac{5}{7} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 8 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	27	1	0	21.	$4\frac{1}{3}$	2	0
2.	9	1	0	22.	$\frac{9}{100}$	2	0
3.	$\frac{2}{25}$	2	0	23.	2.39	2	0
4.	4	1	0	24.	$\frac{61}{100}$	2	0
5.	$\frac{1}{4}$	1	0	25.	0.1244	3	0
6.	81	1	0	26.	3.52	2	0
7.	0	2	0	27.	0.5	2	0
8.	19	1	0	28.	$\frac{36}{35}$ or $1\frac{1}{35}$	2	0
9.	$\frac{1}{2}$	1	0	29.	0.56	2	0
10.	25	1	0	30.	-11	3	0
11.	361	1	0	31.	$4\frac{5}{11}$	1	0
12.	$\frac{5}{7}$	1	0	32.	0.3	2	0
13.	3440	1	0	33.	18	3	0
14.	$\frac{1}{3}$	1	0	34.	43	2	0
15.	10,250	1	0	35.	$5\frac{4}{5}$	2	0
16.	4	1	0	36.	$5\frac{4}{15}$	2	0
17.	-3	2	0	37.	0.4	3	0
18.	34	1	0	38.	-9	3	0
19.	-22	2	0	39.	14 r15; 14.6; $14\frac{15}{25}$ ; $14\frac{3}{5}$	3	0
20.	400	1	0	40.	$\frac{63}{45}$ ; $1\frac{18}{45}$ ; $1\frac{2}{5}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $22 + x = 40$  $x = \underline{\hspace{2cm}}$	<b>2</b> $8^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{8}{58} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $24 + x = 26$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{7}{14} =$  $\underline{\hspace{2cm}}$	<b>6</b> $2^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-14 + 9 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $18 + x = 30$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{2}{22} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 15 = 2$  $x = \underline{\hspace{2cm}}$	<b>11</b> $20^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{6}{38} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 330 \\ \times 53 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{5}{10} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 212 \\ \times 25 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 29 = 36$  $x = \underline{\hspace{2cm}}$
<b>17</b> $19 + -6 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $16 - x = 7$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-17 + -9 =$  $\underline{\hspace{2cm}}$	<b>20</b> $15^2 =$  $\underline{\hspace{2cm}}$



Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{23}{2} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.91 =$$

\_\_\_\_\_

- 23**
- $$4.07 + 3.6 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.97 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.325 \\ \times 0.10 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$3.63 - 2.5 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{6}{8} =$$

\_\_\_\_\_

- 28**
- $$\frac{7}{4} \cdot \frac{7}{9} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.32 \\ \times 0.2 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-10 - -7 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 2\frac{1}{8} \\ + 4\frac{2}{8} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{1}{5} =$$

\_\_\_\_\_

- 33**
- $$12 - -13 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 82 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{21}{4} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 7\frac{5}{12} \\ - 2\frac{4}{12} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.5 \overline{)0.15}$$

\_\_\_\_\_

- 38**
- $$-20 - 4 =$$

\_\_\_\_\_

- 39**
- $$50 \overline{)140}$$

\_\_\_\_\_

- 40**
- $$\frac{3}{6} \div \frac{9}{10} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 9 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	18	1	0	21.	$11\frac{1}{2}$	2	0
2.	64	1	0	22.	$\frac{91}{100}$	2	0
3.	$\frac{4}{29}$	2	0	23.	7.67	2	0
4.	2	1	0	24.	$\frac{97}{100}$	2	0
5.	$\frac{1}{2}$	1	0	25.	0.1325	3	0
6.	4	1	0	26.	1.13	2	0
7.	-5	2	0	27.	0.75	2	0
8.	12	1	0	28.	$\frac{49}{36}$ or $1\frac{13}{36}$	2	0
9.	$\frac{1}{11}$	1	0	29.	0.264	2	0
10.	17	1	0	30.	-3	3	0
11.	400	1	0	31.	$6\frac{3}{8}$	1	0
12.	$\frac{3}{19}$	1	0	32.	0.2	2	0
13.	17,490	1	0	33.	25	3	0
14.	$\frac{1}{2}$	1	0	34.	41	2	0
15.	5300	1	0	35.	$5\frac{1}{4}$	2	0
16.	7	1	0	36.	$5\frac{1}{12}$	2	0
17.	13	2	0	37.	0.3	3	0
18.	9	1	0	38.	-24	3	0
19.	-26	2	0	39.	2 r40; 2.8; $2\frac{40}{50}$ ; $2\frac{20}{25}$ ; $2\frac{4}{5}$	3	0
20.	225	1	0	40.	$\frac{30}{54}$ ; $\frac{5}{9}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $37 + x = 49$  $x = \underline{\hspace{2cm}}$	<b>2</b> $4^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{6}{58} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $19 + x = 27$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{7}{21} =$  $\underline{\hspace{2cm}}$	<b>6</b> $5^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-7 + 8 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $5 + x = 26$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{11}{22} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 16 = 8$  $x = \underline{\hspace{2cm}}$	<b>11</b> $15^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{8}{42} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 541 \\ \times 25 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{3}{15} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 142 \\ \times 32 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 22 = 35$  $x = \underline{\hspace{2cm}}$
<b>17</b> $9 + -3 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $32 - x = 29$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-19 + -10 =$  $\underline{\hspace{2cm}}$	<b>20</b> $10^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{24}{5} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.89 =$$

\_\_\_\_\_

- 23**
- $$2.14 + 0.5 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.03 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.304 \\ \times 0.10 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$5.23 - 2.1 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{6}{8} =$$

\_\_\_\_\_

- 28**
- $$\frac{7}{4} \cdot \frac{3}{5} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.30 \\ \times 0.2 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-15 - -7 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 5 \frac{2}{8} \\ + 1 \frac{5}{8} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{9}{10} =$$

\_\_\_\_\_

- 33**
- $$10 - -4 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 16 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{5}{2} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 8 \frac{4}{14} \\ - 7 \frac{1}{14} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.5 \overline{)0.40}$$

\_\_\_\_\_

- 38**
- $$-4 - 20 =$$

\_\_\_\_\_

- 39**
- $$50 \overline{)210}$$

\_\_\_\_\_

- 40**
- $$\frac{9}{9} \div \frac{2}{5} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 10 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	12	1	0	21.	$4\frac{4}{5}$	2	0
2.	16	1	0	22.	$\frac{89}{100}$	2	0
3.	$\frac{3}{29}$	2	0	23.	2.64	2	0
4.	8	1	0	24.	$\frac{3}{100}$	2	0
5.	$\frac{1}{3}$	1	0	25.	0.1304	3	0
6.	25	1	0	26.	3.13	2	0
7.	1	2	0	27.	0.75	2	0
8.	21	1	0	28.	$\frac{21}{20}$ or $1\frac{1}{20}$	2	0
9.	$\frac{1}{2}$	1	0	29.	0.26	2	0
10.	24	1	0	30.	-8	3	0
11.	225	1	0	31.	$6\frac{7}{8}$	1	0
12.	$\frac{4}{21}$	1	0	32.	0.9	2	0
13.	13,525	1	0	33.	14	3	0
14.	$\frac{1}{5}$	1	0	34.	8	2	0
15.	4544	1	0	35.	$2\frac{1}{2}$	2	0
16.	13	1	0	36.	$1\frac{3}{14}$	2	0
17.	6	2	0	37.	0.8	3	0
18.	3	1	0	38.	-24	3	0
19.	-29	2	0	39.	4 r10; 4.2; $4\frac{10}{50}$ ; $4\frac{5}{25}$ ; $4\frac{1}{5}$	3	0
20.	100	1	0	40.	$\frac{45}{18}$ ; $2\frac{9}{18}$ ; $2\frac{1}{2}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $33 + x = 40$  $x = \underline{\hspace{2cm}}$	<b>2</b> $8^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{12}{45} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $17 + x = 35$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{5}{25} =$  $\underline{\hspace{2cm}}$	<b>6</b> $3^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-5 + 3 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $5 + x = 41$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{11}{22} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 19 = 2$  $x = \underline{\hspace{2cm}}$	<b>11</b> $13^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{10}{12} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 241 \\ \times 51 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{2}{14} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 404 \\ \times 25 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 17 = 28$  $x = \underline{\hspace{2cm}}$
<b>17</b> $19 + -12 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $28 - x = 13$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-9 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $11^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{25}{4} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.11 =$$

\_\_\_\_\_

- 23**
- $$1.03 + 2.8 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.47 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.425 \\ \times 0.10 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$4.37 - 3.7 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{1}{4} =$$

\_\_\_\_\_

- 28**
- $$\frac{5}{6} \cdot \frac{5}{3} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.42 \\ \times 0.3 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-13 - -11 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 2\frac{1}{9} \\ + 4\frac{4}{9} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{7}{10} =$$

\_\_\_\_\_

- 33**
- $$4 - -16 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 24 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{29}{5} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 2\frac{3}{8} \\ - 1\frac{2}{8} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.3 \overline{)0.63}$$

\_\_\_\_\_

- 38**
- $$-7 - 6 =$$

\_\_\_\_\_

- 39**
- $$20 \overline{)136}$$

\_\_\_\_\_

- 40**
- $$\frac{9}{9} \div \frac{5}{7} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 11 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	7	1	0	21.	$6\frac{1}{4}$	2	0
2.	64	1	0	22.	$\frac{11}{100}$	2	0
3.	$\frac{4}{15}$	2	0	23.	3.83	2	0
4.	18	1	0	24.	$\frac{47}{100}$	2	0
5.	$\frac{1}{5}$	1	0	25.	0.1425	3	0
6.	9	1	0	26.	0.67	2	0
7.	-2	2	0	27.	0.25	2	0
8.	36	1	0	28.	$\frac{25}{18}$ or $1\frac{7}{18}$	2	0
9.	$\frac{1}{2}$	1	0	29.	0.426	2	0
10.	21	1	0	30.	-2	3	0
11.	169	1	0	31.	$6\frac{5}{9}$	1	0
12.	$\frac{5}{6}$	1	0	32.	0.7	2	0
13.	12,291	1	0	33.	20	3	0
14.	$\frac{1}{7}$	1	0	34.	12	2	0
15.	10,100	1	0	35.	$5\frac{4}{5}$	2	0
16.	11	1	0	36.	$1\frac{1}{8}$	2	0
17.	7	2	0	37.	2.1	3	0
18.	15	1	0	38.	-13	3	0
19.	-22	2	0	39.	6 r16; 6.8; $6\frac{16}{20}$ ; $6\frac{8}{10}$ ; $6\frac{4}{5}$	3	0
20.	121	1	0	40.	$\frac{63}{45}$ ; $1\frac{18}{45}$ ; $1\frac{2}{5}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2



Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $28 + x = 29$  $x = \underline{\hspace{2cm}}$	<b>2</b> $3^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{14}{48} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $17 + x = 33$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{2}{28} =$  $\underline{\hspace{2cm}}$	<b>6</b> $8^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-6 + 17 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $14 + x = 33$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{11}{88} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 21 = 2$  $x = \underline{\hspace{2cm}}$	<b>11</b> $15^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{12}{51} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 115 \\ \times 25 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{5}{15} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 505 \\ \times 31 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 30 = 39$  $x = \underline{\hspace{2cm}}$
<b>17</b> $17 + -17 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $24 - x = 17$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-19 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $13^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{13}{2} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.89 =$$

\_\_\_\_\_

- 23**
- $$2.04 + 0.7 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.73 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.323 \\ \times 0.20 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$4.22 - 1.8 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{6}{12} =$$

\_\_\_\_\_

- 28**
- $$\frac{7}{4} \cdot \frac{5}{7} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.40 \\ \times 0.4 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-5 - -12 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 4 \frac{3}{7} \\ + 1 \frac{2}{7} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{1}{10} =$$

\_\_\_\_\_

- 33**
- $$9 - -13 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 90 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{7}{5} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 3 \frac{5}{6} \\ - 1 \frac{4}{6} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.2 \overline{)0.54}$$

\_\_\_\_\_

- 38**
- $$-19 - 14 =$$

\_\_\_\_\_

- 39**
- $$40 \overline{)232}$$

\_\_\_\_\_

- 40**
- $$\frac{7}{8} \div \frac{7}{9} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 12 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	1	1	0	21.	$6\frac{1}{2}$	2	0
2.	9	1	0	22.	$\frac{89}{100}$	2	0
3.	$\frac{7}{24}$	2	0	23.	2.74	2	0
4.	16	1	0	24.	$\frac{73}{100}$	2	0
5.	$\frac{1}{14}$	1	0	25.	0.2646	3	0
6.	64	1	0	26.	2.42	2	0
7.	11	2	0	27.	0.5	2	0
8.	19	1	0	28.	$\frac{35}{28}; \frac{5}{4}; 1\frac{1}{4}$	2	0
9.	$\frac{1}{8}$	1	0	29.	0.56	2	0
10.	23	1	0	30.	7	3	0
11.	225	1	0	31.	$5\frac{5}{7}$	1	0
12.	$\frac{4}{17}$	1	0	32.	0.1	2	0
13.	2875	1	0	33.	22	3	0
14.	$\frac{1}{3}$	1	0	34.	45	2	0
15.	15,655	1	0	35.	$1\frac{2}{5}$	2	0
16.	9	1	0	36.	$2\frac{1}{6}$	2	0
17.	0	2	0	37.	2.7	3	0
18.	7	1	0	38.	-33	3	0
19.	-32	2	0	39.	5 r32; 5.8; $5\frac{32}{40}$ ; $5\frac{16}{20}$ ; $5\frac{8}{10}$ ; $5\frac{4}{5}$	3	0
20.	169	1	0	40.	$\frac{63}{56}; 1\frac{7}{56}; 1\frac{1}{8}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $19 + x = 41$  $x = \underline{\hspace{2cm}}$	<b>2</b> $9^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{15}{18} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $31 + x = 49$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{5}{15} =$  $\underline{\hspace{2cm}}$	<b>6</b> $7^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-11 + 19 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $28 + x = 47$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{11}{44} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 25 = 4$  $x = \underline{\hspace{2cm}}$	<b>11</b> $10^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{12}{26} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 240 \\ \times 52 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{7}{21} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 221 \\ \times 50 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 21 = 47$  $x = \underline{\hspace{2cm}}$
<b>17</b> $1 + -4 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $14 - x = 6$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-3 + -15 =$  $\underline{\hspace{2cm}}$	<b>20</b> $19^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{17}{5} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.01 =$$

\_\_\_\_\_

- 23**
- $$1.14 + 0.4 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.87 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.204 \\ \times 0.20 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$5.55 - 4.4 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{4}{20} =$$

\_\_\_\_\_

- 28**
- $$\frac{4}{5} \cdot \frac{7}{5} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.42 \\ \times 0.4 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-12 - -10 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 4 \frac{5}{11} \\ + 3 \frac{3}{11} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{8}{10} =$$

\_\_\_\_\_

- 33**
- $$6 - -17 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 56 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{16}{3} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 6 \frac{4}{7} \\ - 5 \frac{1}{7} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.3 \overline{)0.42}$$

\_\_\_\_\_

- 38**
- $$-8 - 14 =$$

\_\_\_\_\_

- 39**
- $$25 \overline{)245}$$

\_\_\_\_\_

- 40**
- $$\frac{9}{10} \div \frac{6}{9} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 13 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	22	1	0	21.	$3\frac{2}{5}$	2	0
2.	81	1	0	22.	$\frac{1}{100}$	2	0
3.	$\frac{5}{6}$	2	0	23.	1.54	2	0
4.	18	1	0	24.	$\frac{87}{100}$	2	0
5.	$\frac{1}{3}$	1	0	25.	0.2408	3	0
6.	49	1	0	26.	1.15	2	0
7.	8	2	0	27.	0.2	2	0
8.	19	1	0	28.	$\frac{28}{25}$ or $1\frac{3}{25}$	2	0
9.	$\frac{1}{4}$	1	0	29.	0.568	2	0
10.	29	1	0	30.	-2	3	0
11.	100	1	0	31.	$7\frac{8}{11}$	1	0
12.	$\frac{6}{13}$	1	0	32.	0.8	2	0
13.	12,480	1	0	33.	23	3	0
14.	$\frac{1}{3}$	1	0	34.	28	2	0
15.	11,050	1	0	35.	$5\frac{1}{3}$	2	0
16.	26	1	0	36.	$1\frac{3}{7}$	2	0
17.	-3	2	0	37.	1.4	3	0
18.	8	1	0	38.	-22	3	0
19.	-18	2	0	39.	9 r20; 9.8; $9\frac{20}{25}$ ; $9\frac{4}{5}$	3	0
20.	361	1	0	40.	$\frac{81}{60}$ ; $1\frac{21}{60}$ ; $1\frac{7}{20}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $9 + x = 18$  $x = \underline{\hspace{2cm}}$	<b>2</b> $8^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{8}{42} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $38 + x = 44$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{3}{21} =$  $\underline{\hspace{2cm}}$	<b>6</b> $4^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-19 + 6 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $15 + x = 19$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{7}{28} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 22 = 6$  $x = \underline{\hspace{2cm}}$	<b>11</b> $18^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{8}{58} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 141 \\ \times 51 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{5}{25} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 420 \\ \times 53 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 36 = 46$  $x = \underline{\hspace{2cm}}$
<b>17</b> $14 + -12 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $26 - x = 11$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-13 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $17^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{25}{3} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.23 =$$

\_\_\_\_\_

- 23**
- $$3.05 + 1.8 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.53 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.322 \\ \times 0.10 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$4.51 - 2.1 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{9}{12} =$$

\_\_\_\_\_

- 28**
- $$\frac{8}{3} \cdot \frac{2}{5} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.12 \\ \times 0.4 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-16 - -6 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 2\frac{3}{9} \\ + 1\frac{5}{9} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{4}{10} =$$

\_\_\_\_\_

- 33**
- $$18 - -11 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 52 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{15}{2} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 8\frac{4}{14} \\ - 7\frac{1}{14} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.5 \overline{)0.40}$$

\_\_\_\_\_

- 38**
- $$-11 - 20 =$$

\_\_\_\_\_

- 39**
- $$55 \overline{)242}$$

\_\_\_\_\_

- 40**
- $$\frac{9}{10} \div \frac{6}{7} =$$

\_\_\_\_\_



Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 14 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	9	1	0	21.	$8\frac{1}{3}$	2	0
2.	64	1	0	22.	$\frac{23}{100}$	2	0
3.	$\frac{4}{21}$	2	0	23.	4.85	2	0
4.	6	1	0	24.	$\frac{53}{100}$	2	0
5.	$\frac{1}{7}$	1	0	25.	0.1322	3	0
6.	16	1	0	26.	2.41	2	0
7.	-13	2	0	27.	0.75	2	0
8.	4	1	0	28.	$\frac{16}{15}$ or $1\frac{1}{15}$	2	0
9.	$\frac{1}{4}$	1	0	29.	0.448	2	0
10.	28	1	0	30.	-10	3	0
11.	324	1	0	31.	$3\frac{8}{9}$	1	0
12.	$\frac{4}{29}$	1	0	32.	0.4	2	0
13.	7191	1	0	33.	29	3	0
14.	$\frac{1}{5}$	1	0	34.	26	2	0
15.	22,260	1	0	35.	$7\frac{1}{2}$	2	0
16.	10	1	0	36.	$1\frac{3}{14}$	2	0
17.	2	2	0	37.	0.8	3	0
18.	15	1	0	38.	-31	3	0
19.	-26	2	0	39.	4 r22; 4.4; $4\frac{22}{55}$ ; $4\frac{2}{5}$	3	0
20.	289	1	0	40.	$\frac{63}{60}$ ; $1\frac{3}{60}$ ; $1\frac{1}{20}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $15 + x = 35$  $x = \underline{\hspace{2cm}}$	<b>2</b> $5^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{4}{22} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $27 + x = 30$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{3}{12} =$  $\underline{\hspace{2cm}}$	<b>6</b> $7^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-15 + 3 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $17 + x = 30$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{7}{14} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 49 = 1$  $x = \underline{\hspace{2cm}}$	<b>11</b> $20^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{14}{60} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 521 \\ \times 54 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{11}{44} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 112 \\ \times 45 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 19 = 45$  $x = \underline{\hspace{2cm}}$
<b>17</b> $3 + -7 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $18 - x = 9$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-8 + -10 =$  $\underline{\hspace{2cm}}$	<b>20</b> $13^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{9}{5} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.97 =$$

\_\_\_\_\_

- 23**
- $$4.13 + 0.8 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.83 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.202 \\ \times 0.30 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$5.33 - 3.2 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{3}{4} =$$

\_\_\_\_\_

- 28**
- $$\frac{8}{3} \cdot \frac{2}{3} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.30 \\ \times 0.4 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-8 - -7 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 3 \frac{1}{8} \\ + 2 \frac{4}{8} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{6}{10} =$$

\_\_\_\_\_

- 33**
- $$17 - -19 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 26 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{19}{2} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 5 \frac{5}{11} \\ - 4 \frac{3}{11} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.5 \overline{)0.30}$$

\_\_\_\_\_

- 38**
- $$-3 - 10 =$$

\_\_\_\_\_

- 39**
- $$45 \overline{)423}$$

\_\_\_\_\_

- 40**
- $$\frac{9}{10} \div \frac{6}{9} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 15 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	20	1	0	21.	$1\frac{4}{5}$	2	0
2.	25	1	0	22.	$\frac{97}{100}$	2	0
3.	$\frac{2}{11}$	2	0	23.	4.93	2	0
4.	3	1	0	24.	$\frac{83}{100}$	2	0
5.	$\frac{1}{4}$	1	0	25.	0.3606	3	0
6.	49	1	0	26.	2.13	2	0
7.	-12	2	0	27.	0.75	2	0
8.	13	1	0	28.	$\frac{16}{9}$ or $1\frac{7}{9}$	2	0
9.	$\frac{1}{2}$	1	0	29.	0.52	2	0
10.	50	1	0	30.	-1	3	0
11.	400	1	0	31.	$5\frac{5}{8}$	1	0
12.	$\frac{7}{30}$	1	0	32.	0.6	2	0
13.	28,134	1	0	33.	36	3	0
14.	$\frac{1}{4}$	1	0	34.	13	2	0
15.	5040	1	0	35.	$9\frac{1}{2}$	2	0
16.	26	1	0	36.	$1\frac{2}{11}$	2	0
17.	-4	2	0	37.	0.6	3	0
18.	9	1	0	38.	-13	3	0
19.	-18	2	0	39.	9 r18; 9.4; $9\frac{18}{45}$ ; $9\frac{2}{5}$	3	0
20.	169	1	0	40.	$\frac{81}{60}$ ; $1\frac{21}{60}$ ; $1\frac{7}{20}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $45 + x = 49$  $x = \underline{\hspace{2cm}}$	<b>2</b> $7^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{10}{14} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $26 + x = 28$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{3}{24} =$  $\underline{\hspace{2cm}}$	<b>6</b> $4^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-16 + 17 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $36 + x = 42$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{5}{15} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 23 = 4$  $x = \underline{\hspace{2cm}}$	<b>11</b> $11^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{10}{26} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 415 \\ \times 12 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{11}{66} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 105 \\ \times 16 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 6 = 18$  $x = \underline{\hspace{2cm}}$
<b>17</b> $3 + -6 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $22 - x = 7$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-19 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $13^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{8}{3} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.03 =$$

\_\_\_\_\_

- 23**
- $$2.08 + 0.8 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.63 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.232 \\ \times 0.20 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$3.83 - 1.9 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{6}{12} =$$

\_\_\_\_\_

- 28**
- $$\frac{8}{5} \cdot \frac{4}{5} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.02 \\ \times 0.1 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-20 - -18 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 1\frac{2}{9} \\ + 3\frac{5}{9} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{4}{10} =$$

\_\_\_\_\_

- 33**
- $$10 - -17 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 96 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{15}{4} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 7\frac{3}{11} \\ - 3\frac{1}{11} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.4 \overline{)0.40}$$

\_\_\_\_\_

- 38**
- $$-1 - 12 =$$

\_\_\_\_\_

- 39**
- $$10 \overline{)235}$$

\_\_\_\_\_

- 40**
- $$\frac{9}{9} \div \frac{5}{7} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 16 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	4	1	0	21.	$2\frac{2}{3}$	2	0
2.	49	1	0	22.	$\frac{3}{100}$	2	0
3.	$\frac{5}{7}$	2	0	23.	2.88	2	0
4.	2	1	0	24.	$\frac{63}{100}$	2	0
5.	$\frac{1}{8}$	1	0	25.	0.2464	3	0
6.	16	1	0	26.	1.93	2	0
7.	1	2	0	27.	0.5	2	0
8.	6	1	0	28.	$\frac{32}{25}$ or $1\frac{7}{25}$	2	0
9.	$\frac{1}{3}$	1	0	29.	0.102	2	0
10.	27	1	0	30.	-2	3	0
11.	121	1	0	31.	$4\frac{7}{9}$	1	0
12.	$\frac{5}{13}$	1	0	32.	0.4	2	0
13.	4980	1	0	33.	27	3	0
14.	$\frac{1}{6}$	1	0	34.	48	2	0
15.	1680	1	0	35.	$3\frac{3}{4}$	2	0
16.	12	1	0	36.	$4\frac{2}{11}$	2	0
17.	-3	2	0	37.	1	3	0
18.	15	1	0	38.	-13	3	0
19.	-32	2	0	39.	23 r5; 23.5; $23\frac{5}{10}$ ; $23\frac{1}{2}$	3	0
20.	169	1	0	40.	$\frac{63}{45}$ ; $1\frac{18}{45}$ ; $1\frac{2}{5}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $28 + x = 33$  $x = \underline{\hspace{2cm}}$	<b>2</b> $3^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{6}{38} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $24 + x = 31$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{2}{20} =$  $\underline{\hspace{2cm}}$	<b>6</b> $5^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-8 + 3 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $23 + x = 32$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{3}{9} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 5 = 29$  $x = \underline{\hspace{2cm}}$	<b>11</b> $15^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{14}{26} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 103 \\ \times 36 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{11}{99} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 441 \\ \times 32 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 21 = 49$  $x = \underline{\hspace{2cm}}$
<b>17</b> $12 + -6 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $22 - x = 3$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-8 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $16^2 =$  $\underline{\hspace{2cm}}$



Student:

Teacher:

Date:

<b>21</b> Write fraction as a mixed number $\frac{20}{3} =$  	<b>22</b> Convert to fraction $0.63 =$  	<b>23</b> $2.16 + 0.4 =$  	<b>24</b> Convert to fraction $0.73 =$  
<b>25</b> $\begin{array}{r} 1.101 \\ \times 0.30 \\ \hline \end{array}$	<b>26</b> $5.12 - 2.6 =$  	<b>27</b> Convert to decimal $\frac{6}{12} =$  	<b>28</b> $\frac{9}{5} \cdot \frac{6}{7} =$  
<b>29</b> $\begin{array}{r} 1.42 \\ \times 0.2 \\ \hline \end{array}$	<b>30</b> $-3 - -11 =$  	<b>31</b> $\begin{array}{r} 1\frac{2}{9} \\ + 3\frac{5}{9} \\ \hline \end{array}$	<b>32</b> Convert to decimal $\frac{3}{10} =$  
<b>33</b> $15 - -15 =$  	<b>34</b> $50\% \text{ of } 78 =$  	<b>35</b> Write fraction as a mixed number $\frac{15}{4} =$  	<b>36</b> $\begin{array}{r} 8\frac{4}{10} \\ - 7\frac{1}{10} \\ \hline \end{array}$
<b>37</b> $0.5 \overline{)0.25}$	<b>38</b> $-5 - 8 =$  	<b>39</b> $42 \overline{)231}$	<b>40</b> $\frac{9}{9} \div \frac{5}{7} =$  

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 17 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	5	1	0	21.	$6\frac{2}{3}$	2	0
2.	9	1	0	22.	$\frac{63}{100}$	2	0
3.	$\frac{3}{19}$	2	0	23.	2.56	2	0
4.	7	1	0	24.	$\frac{73}{100}$	2	0
5.	$\frac{1}{10}$	1	0	25.	0.3303	3	0
6.	25	1	0	26.	2.52	2	0
7.	-5	2	0	27.	0.5	2	0
8.	9	1	0	28.	$\frac{54}{35}$ or $1\frac{19}{35}$	2	0
9.	$\frac{1}{3}$	1	0	29.	0.284	2	0
10.	34	1	0	30.	8	3	0
11.	225	1	0	31.	$4\frac{7}{9}$	1	0
12.	$\frac{7}{13}$	1	0	32.	0.30	2	0
13.	3708	1	0	33.	30	3	0
14.	$\frac{1}{9}$	1	0	34.	39	2	0
15.	14,112	1	0	35.	$3\frac{3}{4}$	2	0
16.	28	1	0	36.	$1\frac{3}{10}$	2	0
17.	6	2	0	37.	0.5	3	0
18.	19	1	0	38.	-13	3	0
19.	-21	2	0	39.	5 r21; 5.5; $5\frac{21}{42}$ ; $5\frac{7}{14}$ ; $5\frac{1}{2}$	3	0
20.	256	1	0	40.	$\frac{63}{45}$ ; $1\frac{18}{45}$ ; $1\frac{2}{5}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $33 + x = 37$  $x = \underline{\hspace{2cm}}$	<b>2</b> $9^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{12}{26} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $13 + x = 32$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{2}{10} =$  $\underline{\hspace{2cm}}$	<b>6</b> $3^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-3 + 18 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $8 + x = 13$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{3}{18} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 20 = 8$  $x = \underline{\hspace{2cm}}$	<b>11</b> $12^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{10}{22} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 242 \\ \times 32 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{5}{20} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 140 \\ \times 52 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 5 = 25$  $x = \underline{\hspace{2cm}}$
<b>17</b> $10 + -9 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $49 - x = 11$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-16 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $17^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{6}{5} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.39 =$$

\_\_\_\_\_

- 23**
- $$1.05 + 0.7 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.09 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.243 \\ \times 0.10 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$5.51 - 2.6 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{3}{4} =$$

\_\_\_\_\_

- 28**
- $$\frac{4}{5} \cdot \frac{8}{6} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.02 \\ \times 0.2 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-12 - -6 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 3\frac{3}{12} \\ + 2\frac{4}{12} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{2}{8} =$$

\_\_\_\_\_

- 33**
- $$14 - -10 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 60 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{17}{2} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 6\frac{5}{15} \\ - 1\frac{1}{15} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.2 \overline{)0.22}$$

$$-11 - 11 =$$

\_\_\_\_\_

- 39**
- $$45 \overline{)342}$$

$$7 \overline{)9} \div \frac{9}{10} =$$

\_\_\_\_\_

$$\frac{7}{9} \div \frac{9}{10} =$$

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 18 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	4	1	0	21.	$1\frac{1}{5}$	2	0
2.	81	1	0	22.	$\frac{39}{100}$	2	0
3.	$\frac{6}{13}$	2	0	23.	1.75	2	0
4.	19	1	0	24.	$\frac{9}{100}$	2	0
5.	$\frac{1}{5}$	1	0	25.	0.1243	3	0
6.	9	1	0	26.	2.91	2	0
7.	15	2	0	27.	0.75	2	0
8.	5	1	0	28.	$\frac{32}{30}$ ; $1\frac{2}{30}$ ; $1\frac{1}{15}$	2	0
9.	$\frac{1}{6}$	1	0	29.	0.204	2	0
10.	28	1	0	30.	-6	3	0
11.	144	1	0	31.	$5\frac{7}{12}$	1	0
12.	$\frac{5}{11}$	1	0	32.	0.25	2	0
13.	7744	1	0	33.	24	3	0
14.	$\frac{1}{4}$	1	0	34.	30	2	0
15.	7280	1	0	35.	$8\frac{1}{2}$	2	0
16.	20	1	0	36.	$5\frac{4}{15}$	2	0
17.	1	2	0	37.	1.1	3	0
18.	38	1	0	38.	-22	3	0
19.	-29	2	0	39.	$7\frac{27}{45}$ ; 7.6; $7\frac{9}{15}$ ; $7\frac{3}{5}$	3	0
20.	289	1	0	40.	$\frac{70}{81}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $13 + x = 21$  $x = \underline{\hspace{2cm}}$	<b>2</b> $6^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{10}{24} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $39 + x = 41$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{2}{12} =$  $\underline{\hspace{2cm}}$	<b>6</b> $2^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-5 + 10 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $26 + x = 32$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{11}{99} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 3 = 27$  $x = \underline{\hspace{2cm}}$	<b>11</b> $14^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{12}{45} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 503 \\ \times 43 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{7}{28} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 121 \\ \times 53 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 22 = 28$  $x = \underline{\hspace{2cm}}$
<b>17</b> $14 + -5 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $25 - x = 5$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-12 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $10^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

<b>21</b> Write fraction as a mixed number $\frac{27}{4} =$  	<b>22</b> Convert to fraction $0.93 =$  	<b>23</b> $4.08 + 0.6 =$  	<b>24</b> Convert to fraction $0.29 =$  
<b>25</b> $\begin{array}{r} 1.213 \\ \times 0.20 \\ \hline \end{array}$	<b>26</b> $1.05 - 0.5 =$  	<b>27</b> Convert to decimal $\frac{4}{8} =$  	<b>28</b> $\frac{7}{8} \cdot \frac{7}{6} =$  
<b>29</b> $\begin{array}{r} 1.40 \\ \times 0.1 \\ \hline \end{array}$	<b>30</b> $-19 - -6 =$  	<b>31</b> $\begin{array}{r} 3\frac{1}{7} \\ + 3\frac{2}{7} \\ \hline \end{array}$	<b>32</b> Convert to decimal $\frac{6}{10} =$  
<b>33</b> $18 - -5 =$  	<b>34</b> $50\% \text{ of } 20 =$  	<b>35</b> Write fraction as a mixed number $\frac{10}{3} =$  	<b>36</b> $\begin{array}{r} 5\frac{4}{5} \\ - 2\frac{3}{5} \\ \hline \end{array}$
<b>37</b> $0.2 \overline{)0.12}$	<b>38</b> $-9 - 15 =$  	<b>39</b> $32 \overline{)144}$	<b>40</b> $\frac{9}{9} \div \frac{5}{7} =$  

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 19 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	8	1	0	21.	$6\frac{3}{4}$	2	0
2.	36	1	0	22.	$\frac{93}{100}$	2	0
3.	$\frac{5}{12}$	2	0	23.	4.68	2	0
4.	2	1	0	24.	$\frac{29}{100}$	2	0
5.	$\frac{1}{6}$	1	0	25.	0.2426	3	0
6.	4	1	0	26.	0.55	2	0
7.	5	2	0	27.	0.5	2	0
8.	6	1	0	28.	$\frac{49}{48}$ or $1\frac{1}{48}$	2	0
9.	$\frac{1}{9}$	1	0	29.	0.14	2	0
10.	30	1	0	30.	-13	3	0
11.	196	1	0	31.	$6\frac{3}{7}$	1	0
12.	$\frac{4}{15}$	1	0	32.	0.6	2	0
13.	21,629	1	0	33.	23	3	0
14.	$\frac{1}{4}$	1	0	34.	10	2	0
15.	6413	1	0	35.	$3\frac{1}{3}$	2	0
16.	6	1	0	36.	$3\frac{1}{5}$	2	0
17.	9	2	0	37.	0.6	3	0
18.	20	1	0	38.	-24	3	0
19.	-25	2	0	39.	4 r16; 4.5; $4\frac{16}{32}$ ; $4\frac{8}{16}$ ; $4\frac{4}{8}$ ; $4\frac{2}{4}$ ; $4\frac{1}{2}$	3	0
20.	100	1	0	40.	$\frac{63}{45}$ ; $1\frac{18}{45}$ ; $1\frac{2}{5}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2



Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $15 + x = 39$  $x = \underline{\hspace{2cm}}$	<b>2</b> $2^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{8}{50} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $26 + x = 40$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{3}{27} =$  $\underline{\hspace{2cm}}$	<b>6</b> $6^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-9 + 4 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $25 + x = 48$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{5}{15} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 2 = 25$  $x = \underline{\hspace{2cm}}$	<b>11</b> $11^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{10}{48} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 240 \\ \times 25 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{11}{77} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 214 \\ \times 40 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 20 = 41$  $x = \underline{\hspace{2cm}}$
<b>17</b> $11 + -8 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $15 - x = 5$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-20 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $15^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{29}{4} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.49 =$$

\_\_\_\_\_

- 23**
- $$1.13 + 3.6 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.21 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.211 \\ \times 0.20 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$2.84 - 0.9 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{6}{12} =$$

\_\_\_\_\_

- 28**
- $$\frac{5}{7} \cdot \frac{8}{3} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.12 \\ \times 0.3 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$^{-}16 - ^{-}10 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 2\frac{2}{11} \\ + 3\frac{1}{11} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{3}{10} =$$

\_\_\_\_\_

- 33**
- $$2 - ^{-}1 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 92 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{12}{5} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 5\frac{4}{5} \\ - 2\frac{3}{5} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.2 \overline{)0.40}$$

\_\_\_\_\_

- 38**
- $$^{-}2 - 9 =$$

\_\_\_\_\_

- 39**
- $$32 \overline{)304}$$

\_\_\_\_\_

- 40**
- $$\frac{9}{9} \div \frac{2}{5} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 20 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	24	1	0	21.	$7\frac{1}{4}$	2	0
2.	4	1	0	22.	$\frac{49}{100}$	2	0
3.	$\frac{4}{25}$	2	0	23.	4.73	2	0
4.	14	1	0	24.	$\frac{21}{100}$	2	0
5.	$\frac{1}{9}$	1	0	25.	0.2422	3	0
6.	36	1	0	26.	1.94	2	0
7.	-5	2	0	27.	0.5	2	0
8.	23	1	0	28.	$\frac{40}{21}$ or $1\frac{19}{21}$	2	0
9.	$\frac{1}{3}$	1	0	29.	0.336	2	0
10.	27	1	0	30.	-6	3	0
11.	121	1	0	31.	$5\frac{3}{11}$	1	0
12.	$\frac{5}{24}$	1	0	32.	0.3	2	0
13.	6000	1	0	33.	3	3	0
14.	$\frac{1}{7}$	1	0	34.	46	2	0
15.	8560	1	0	35.	$2\frac{2}{5}$	2	0
16.	21	1	0	36.	$3\frac{1}{5}$	2	0
17.	3	2	0	37.	2	3	0
18.	10	1	0	38.	-11	3	0
19.	-33	2	0	39.	9 r16; 9.5; $9\frac{16}{32}$ ; $9\frac{8}{16}$ ; $9\frac{4}{8}$ ; $9\frac{2}{4}$ ; $9\frac{1}{2}$	3	0
20.	225	1	0	40.	$\frac{45}{18}$ ; $2\frac{9}{18}$ ; $2\frac{1}{2}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $22 + x = 37$  $x = \underline{\hspace{2cm}}$	<b>2</b> $7^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{6}{40} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $30 + x = 49$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{11}{77} =$  $\underline{\hspace{2cm}}$	<b>6</b> $9^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-17 + 2 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $6 + x = 33$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{5}{15} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 14 = 6$  $x = \underline{\hspace{2cm}}$	<b>11</b> $17^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{8}{10} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 252 \\ \times 41 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{7}{28} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 232 \\ \times 42 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 32 = 40$  $x = \underline{\hspace{2cm}}$
<b>17</b> $7 + -6 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $15 - x = 2$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-6 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $12^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

<b>21</b> Write fraction as a mixed number $\frac{29}{2} =$  	<b>22</b> Convert to fraction $0.79 =$  	<b>23</b> $2.06 + 0.9 =$  	<b>24</b> Convert to fraction $0.99 =$  
<b>25</b> $\begin{array}{r} 1.304 \\ \times 0.20 \\ \hline \end{array}$	<b>26</b> $4.17 - 3.2 =$  	<b>27</b> Convert to decimal $\frac{1}{4} =$  	<b>28</b> $\frac{4}{9} \cdot \frac{7}{3} =$  
<b>29</b> $\begin{array}{r} 1.02 \\ \times 0.5 \\ \hline \end{array}$	<b>30</b> $-9 - -14 =$  	<b>31</b> $\begin{array}{r} 5\frac{4}{11} \\ + 2\frac{1}{11} \\ \hline \end{array}$	<b>32</b> Convert to decimal $\frac{8}{10} =$  
<b>33</b> $6 - -12 =$  	<b>34</b> $50\% \text{ of } 14 =$  	<b>35</b> Write fraction as a mixed number $\frac{18}{5} =$  	<b>36</b> $\begin{array}{r} 6\frac{3}{7} \\ - 4\frac{2}{7} \\ \hline \end{array}$
<b>37</b> $0.3 \overline{)0.45}$	<b>38</b> $-18 - 17 =$  	<b>39</b> $30 \overline{)363}$	<b>40</b> $\frac{7}{8} \div \frac{1}{6} =$  

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 21 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	15	1	0	21.	$14\frac{1}{2}$	2	0
2.	49	1	0	22.	$\frac{79}{100}$	2	0
3.	$\frac{3}{20}$	2	0	23.	2.96	2	0
4.	19	1	0	24.	$\frac{99}{100}$	2	0
5.	$\frac{1}{7}$	1	0	25.	0.2608	3	0
6.	81	1	0	26.	0.97	2	0
7.	-15	2	0	27.	0.25	2	0
8.	27	1	0	28.	$\frac{28}{27}$ or $1\frac{1}{27}$	2	0
9.	$\frac{1}{3}$	1	0	29.	0.51	2	0
10.	20	1	0	30.	5	3	0
11.	289	1	0	31.	$7\frac{5}{11}$	1	0
12.	$\frac{4}{5}$	1	0	32.	0.8	2	0
13.	10,332	1	0	33.	18	3	0
14.	$\frac{1}{4}$	1	0	34.	7	2	0
15.	9744	1	0	35.	$3\frac{3}{5}$	2	0
16.	8	1	0	36.	$2\frac{1}{7}$	2	0
17.	1	2	0	37.	1.5	3	0
18.	13	1	0	38.	-35	3	0
19.	-19	2	0	39.	12 r3; 12.1; $12\frac{3}{30}$ ; $12\frac{1}{10}$	3	0
20.	144	1	0	40.	$\frac{42}{8}$ ; $5\frac{2}{8}$ ; $5\frac{1}{4}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $30 + x = 33$  $x = \underline{\hspace{2cm}}$	<b>2</b> $9^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{12}{51} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $11 + x = 27$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{3}{12} =$  $\underline{\hspace{2cm}}$	<b>6</b> $6^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-2 + 6 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $16 + x = 41$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{2}{10} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 23 = 2$  $x = \underline{\hspace{2cm}}$	<b>11</b> $16^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{8}{50} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 251 \\ \times 30 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{11}{33} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 116 \\ \times 40 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 32 = 36$  $x = \underline{\hspace{2cm}}$
<b>17</b> $16 + -3 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $21 - x = 5$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-20 + -7 =$  $\underline{\hspace{2cm}}$	<b>20</b> $14^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{20}{3} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.83 =$$

\_\_\_\_\_

- 23**
- $$2.07 + 0.6 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.81 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.323 \\ \times 0.10 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$3.81 - 1.4 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{1}{2} =$$

\_\_\_\_\_

- 28**
- $$\frac{8}{5} \cdot \frac{4}{5} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.02 \\ \times 0.3 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-15 - -3 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 4\frac{4}{9} \\ + 2\frac{3}{9} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{3}{10} =$$

\_\_\_\_\_

- 33**
- $$12 - -7 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 32 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{23}{5} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 6\frac{5}{15} \\ - 1\frac{1}{15} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.3 \overline{)0.12}$$

\_\_\_\_\_

- 38**
- $$-6 - 4 =$$

\_\_\_\_\_

- 39**
- $$42 \overline{)105}$$

\_\_\_\_\_

- 40**
- $$\frac{7}{9} \div \frac{3}{4} =$$

\_\_\_\_\_



Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 22 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	3	1	0	21.	$6\frac{2}{3}$	2	0
2.	81	1	0	22.	$\frac{83}{100}$	2	0
3.	$\frac{4}{17}$	2	0	23.	2.67	2	0
4.	16	1	0	24.	$\frac{81}{100}$	2	0
5.	$\frac{1}{4}$	1	0	25.	0.1323	3	0
6.	36	1	0	26.	2.41	2	0
7.	4	2	0	27.	0.5	2	0
8.	25	1	0	28.	$\frac{32}{25}$ or $1\frac{7}{25}$	2	0
9.	$\frac{1}{5}$	1	0	29.	0.306	2	0
10.	25	1	0	30.	-12	3	0
11.	256	1	0	31.	$6\frac{7}{9}$	1	0
12.	$\frac{4}{25}$	1	0	32.	0.3	2	0
13.	7530	1	0	33.	19	3	0
14.	$\frac{1}{3}$	1	0	34.	16	2	0
15.	4640	1	0	35.	$4\frac{3}{5}$	2	0
16.	4	1	0	36.	$5\frac{4}{15}$	2	0
17.	13	2	0	37.	0.4	3	0
18.	16	1	0	38.	-10	3	0
19.	-27	2	0	39.	2 r21; 2.5; $2\frac{21}{42}$ ; $2\frac{7}{14}$ ; $2\frac{3}{6}$ ; $2\frac{1}{2}$	3	0
20.	196	1	0	40.	$\frac{28}{27}$ or $1\frac{1}{27}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $14 + x = 19$  $x = \underline{\hspace{2cm}}$	<b>2</b> $4^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{14}{32} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $17 + x = 47$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{3}{21} =$  $\underline{\hspace{2cm}}$	<b>6</b> $8^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-3 + 11 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $31 + x = 40$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{5}{10} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 47 = 2$  $x = \underline{\hspace{2cm}}$	<b>11</b> $15^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{10}{56} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 143 \\ \times 31 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{11}{33} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 124 \\ \times 42 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 26 = 34$  $x = \underline{\hspace{2cm}}$
<b>17</b> $14 + -6 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $22 - x = 9$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-1 + -10 =$  $\underline{\hspace{2cm}}$	<b>20</b> $14^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{13}{5} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.33 =$$

\_\_\_\_\_

- 23**
- $$3.18 + 1.4 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.77 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.321 \\ \times 0.10 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$3.97 - 2.8 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{6}{8} =$$

\_\_\_\_\_

- 28**
- $$\frac{5}{8} \cdot \frac{9}{4} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.04 \\ \times 0.2 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$^{-}4 - ^{-}16 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 3\frac{3}{12} \\ + 2\frac{4}{12} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{6}{10} =$$

\_\_\_\_\_

- 33**
- $$5 - ^{-}17 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 34 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{23}{3} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 7\frac{2}{10} \\ - 3\frac{1}{10} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.4 \overline{)0.12}$$

\_\_\_\_\_

- 38**
- $$^{-}13 - 7 =$$

\_\_\_\_\_

- 39**
- $$32 \overline{)432}$$

\_\_\_\_\_

- 40**
- $$\frac{8}{9} \div \frac{6}{7} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 23 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	5	1	0	21.	$2\frac{3}{5}$	2	0
2.	16	1	0	22.	$\frac{33}{100}$	2	0
3.	$\frac{7}{16}$	2	0	23.	4.58	2	0
4.	30	1	0	24.	$\frac{77}{100}$	2	0
5.	$\frac{1}{7}$	1	0	25.	0.1321	3	0
6.	64	1	0	26.	1.17	2	0
7.	8	2	0	27.	0.75	2	0
8.	9	1	0	28.	$\frac{45}{32}$ or $1\frac{13}{32}$	2	0
9.	$\frac{1}{2}$	1	0	29.	0.208	2	0
10.	49	1	0	30.	12	3	0
11.	225	1	0	31.	$5\frac{7}{12}$	1	0
12.	$\frac{5}{28}$	1	0	32.	0.6	2	0
13.	4433	1	0	33.	22	3	0
14.	$\frac{1}{3}$	1	0	34.	17	2	0
15.	5208	1	0	35.	$7\frac{2}{3}$	2	0
16.	8	1	0	36.	$4\frac{1}{10}$	2	0
17.	8	2	0	37.	0.3	3	0
18.	13	1	0	38.	-20	3	0
19.	-11	2	0	39.	13 r16; 13.5; $13\frac{16}{32}$ ; $13\frac{4}{8}$ ; $13\frac{2}{4}$ ; $13\frac{1}{2}$	3	0
20.	196	1	0	40.	$\frac{56}{54}$ ; $1\frac{2}{54}$ ; $1\frac{1}{27}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $17 + x = 26$  $x = \underline{\hspace{2cm}}$	<b>2</b> $6^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{10}{12} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $6 + x = 22$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{5}{20} =$  $\underline{\hspace{2cm}}$	<b>6</b> $2^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-19 + 17 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $39 + x = 43$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{3}{18} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 21 = 4$  $x = \underline{\hspace{2cm}}$	<b>11</b> $16^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{6}{40} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 413 \\ \times 43 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{11}{55} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 131 \\ \times 50 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 27 = 32$  $x = \underline{\hspace{2cm}}$
<b>17</b> $4 + -3 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $20 - x = 9$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-4 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $10^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

<b>21</b> Write fraction as a mixed number $\frac{25}{2} =$  	<b>22</b> Convert to fraction $0.07 =$  	<b>23</b> $4.12 + 1.8 =$  	<b>24</b> Convert to fraction $0.39 =$  
<b>25</b> $\begin{array}{r} 1.212 \\ \times 0.10 \\ \hline \end{array}$	<b>26</b> $3.89 - 3.7 =$  	<b>27</b> Convert to decimal $\frac{4}{16} =$  	<b>28</b> $\frac{5}{7} \cdot \frac{8}{3} =$  
<b>29</b> $\begin{array}{r} 1.30 \\ \times 0.5 \\ \hline \end{array}$	<b>30</b> $-20 - -10 =$  	<b>31</b> $\begin{array}{r} 2\frac{1}{9} \\ + 4\frac{3}{9} \\ \hline \end{array}$	<b>32</b> Convert to decimal $\frac{9}{10} =$  
<b>33</b> $1 - -15 =$  	<b>34</b> $50\% \text{ of } 64 =$  	<b>35</b> Write fraction as a mixed number $\frac{7}{4} =$  	<b>36</b> $\begin{array}{r} 8\frac{4}{15} \\ - 7\frac{2}{15} \\ \hline \end{array}$
<b>37</b> $0.4 \overline{)0.24}$	<b>38</b> $-10 - 9 =$  	<b>39</b> $55 \overline{)352}$	<b>40</b> $\frac{9}{9} \div \frac{5}{7} =$  

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 24 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	9	1	0	21.	$12\frac{1}{2}$	2	0
2.	36	1	0	22.	$\frac{7}{100}$	2	0
3.	$\frac{5}{6}$	2	0	23.	5.92	2	0
4.	16	1	0	24.	$\frac{39}{100}$	2	0
5.	$\frac{1}{4}$	1	0	25.	0.1212	3	0
6.	4	1	0	26.	0.19	2	0
7.	-2	2	0	27.	0.25	2	0
8.	4	1	0	28.	$\frac{40}{21}$ or $1\frac{19}{21}$	2	0
9.	$\frac{1}{6}$	1	0	29.	0.65	2	0
10.	25	1	0	30.	-10	3	0
11.	256	1	0	31.	$6\frac{4}{9}$	1	0
12.	$\frac{3}{20}$	1	0	32.	0.9	2	0
13.	17,759	1	0	33.	16	3	0
14.	$\frac{1}{5}$	1	0	34.	32	2	0
15.	6550	1	0	35.	$1\frac{3}{4}$	2	0
16.	5	1	0	36.	$1\frac{2}{15}$	2	0
17.	1	2	0	37.	0.6	3	0
18.	11	1	0	38.	-19	3	0
19.	-17	2	0	39.	6 r22; 6.4; $6\frac{22}{55}$ ; $6\frac{2}{5}$	3	0
20.	100	1	0	40.	$\frac{63}{45}$ ; $1\frac{18}{45}$ ; $1\frac{2}{5}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $37 + x = 47$  $x = \underline{\hspace{2cm}}$	<b>2</b> $8^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{10}{48} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $14 + x = 28$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{2}{8} =$  $\underline{\hspace{2cm}}$	<b>6</b> $7^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-4 + 11 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $28 + x = 49$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{7}{21} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 8 = 19$  $x = \underline{\hspace{2cm}}$	<b>11</b> $16^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{6}{50} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 102 \\ \times 25 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{3}{24} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 116 \\ \times 40 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 5 = 37$  $x = \underline{\hspace{2cm}}$
<b>17</b> $11 + -4 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $20 - x = 7$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-14 + -1 =$  $\underline{\hspace{2cm}}$	<b>20</b> $18^2 =$  $\underline{\hspace{2cm}}$



Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{28}{5} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.31 =$$

\_\_\_\_\_

- 23**
- $$3.17 + 0.8 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.07 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.242 \\ \times 0.20 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$1.45 - 0.8 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{1}{2} =$$

\_\_\_\_\_

- 28**
- $$\frac{5}{8} \cdot \frac{7}{3} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.40 \\ \times 0.3 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-5 - -5 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 3\frac{2}{7} \\ + 5\frac{3}{7} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{3}{10} =$$

\_\_\_\_\_

- 33**
- $$19 - -13 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 84 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{19}{3} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 6\frac{3}{10} \\ - 1\frac{2}{10} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.2 \overline{)0.04}$$

\_\_\_\_\_

- 38**
- $$-9 - 1 =$$

\_\_\_\_\_

- 39**
- $$20 \overline{)356}$$

\_\_\_\_\_

- 40**
- $$\frac{9}{10} \div \frac{3}{5} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 25 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	10	1	0	21.	$5\frac{3}{5}$	2	0
2.	64	1	0	22.	$\frac{31}{100}$	2	0
3.	$\frac{5}{24}$	2	0	23.	3.97	2	0
4.	14	1	0	24.	$\frac{7}{100}$	2	0
5.	$\frac{1}{4}$	1	0	25.	0.2484	3	0
6.	49	1	0	26.	0.65	2	0
7.	7	2	0	27.	0.5	2	0
8.	21	1	0	28.	$\frac{35}{24}$ or $1\frac{11}{24}$	2	0
9.	$\frac{1}{3}$	1	0	29.	0.42	2	0
10.	27	1	0	30.	0	3	0
11.	256	1	0	31.	$8\frac{5}{7}$	1	0
12.	$\frac{3}{25}$	1	0	32.	0.3	2	0
13.	2550	1	0	33.	32	3	0
14.	$\frac{1}{8}$	1	0	34.	42	2	0
15.	4640	1	0	35.	$6\frac{1}{3}$	2	0
16.	32	1	0	36.	$5\frac{1}{10}$	2	0
17.	7	2	0	37.	0.2	3	0
18.	13	1	0	38.	-10	3	0
19.	-15	2	0	39.	17 r16; 17.8; $17\frac{16}{20}$ ; $17\frac{8}{10}$ ; $17\frac{4}{5}$	3	0
20.	324	1	0	40.	$\frac{45}{30}$ ; $1\frac{15}{30}$ ; $1\frac{1}{2}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $9 + x = 33$  $x = \underline{\hspace{2cm}}$	<b>2</b> $5^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{12}{21} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $37 + x = 45$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{5}{25} =$  $\underline{\hspace{2cm}}$	<b>6</b> $3^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-15 + 2 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $17 + x = 19$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{11}{22} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 3 = 43$  $x = \underline{\hspace{2cm}}$	<b>11</b> $18^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{14}{48} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 130 \\ \times 43 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{2}{10} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 145 \\ \times 20 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 19 = 40$  $x = \underline{\hspace{2cm}}$
<b>17</b> $15 + -7 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $44 - x = 17$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-12 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $12^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{23}{2} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.57 =$$

\_\_\_\_\_

- 23**
- $$4.32 + 3.1 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.03 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.245 \\ \times 0.10 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$1.02 - 0.8 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{1}{2} =$$

\_\_\_\_\_

- 28**
- $$\frac{5}{8} \cdot \frac{7}{2} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.32 \\ \times 0.4 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$^{-}6 - ^{-}8 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 1\frac{1}{12} \\ + 3\frac{4}{12} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{9}{10} =$$

\_\_\_\_\_

- 33**
- $$8 - ^{-}20 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 10 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{9}{4} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 6\frac{3}{11} \\ - 2\frac{2}{11} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.3 \overline{)0.54}$$

\_\_\_\_\_

- 38**
- $$^{-}13 - 19 =$$

\_\_\_\_\_

- 39**
- $$35 \overline{)133}$$

\_\_\_\_\_

- 40**
- $$\frac{9}{10} \div \frac{6}{7} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 26 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	24	1	0	21.	$11\frac{1}{2}$	2	0
2.	25	1	0	22.	$\frac{57}{100}$	2	0
3.	$\frac{4}{7}$	2	0	23.	7.42	2	0
4.	8	1	0	24.	$\frac{3}{100}$	2	0
5.	$\frac{1}{5}$	1	0	25.	0.1245	3	0
6.	9	1	0	26.	0.22	2	0
7.	-13	2	0	27.	0.5	2	0
8.	2	1	0	28.	$\frac{35}{16}$ or $2\frac{3}{16}$	2	0
9.	$\frac{1}{2}$	1	0	29.	0.528	2	0
10.	46	1	0	30.	2	3	0
11.	324	1	0	31.	$4\frac{5}{12}$	1	0
12.	$\frac{7}{24}$	1	0	32.	0.9	2	0
13.	5590	1	0	33.	28	3	0
14.	$\frac{1}{5}$	1	0	34.	5	2	0
15.	2900	1	0	35.	$2\frac{1}{4}$	2	0
16.	21	1	0	36.	$4\frac{1}{11}$	2	0
17.	8	2	0	37.	1.8	3	0
18.	27	1	0	38.	-32	3	0
19.	-25	2	0	39.	3 r28; 3.8; $3\frac{28}{35}$ ; $3\frac{4}{5}$	3	0
20.	144	1	0	40.	$\frac{63}{60}$ ; $1\frac{3}{60}$ ; $1\frac{1}{20}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $8 + x = 15$  $x = \underline{\hspace{2cm}}$	<b>2</b> $4^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{10}{22} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $7 + x = 28$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{7}{21} =$  $\underline{\hspace{2cm}}$	<b>6</b> $8^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-15 + 7 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $4 + x = 12$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{6}{12} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 5 = 40$  $x = \underline{\hspace{2cm}}$	<b>11</b> $15^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{12}{51} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 166 \\ \times 20 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{4}{16} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 422 \\ \times 52 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 35 = 70$  $x = \underline{\hspace{2cm}}$
<b>17</b> $12 + -8 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $14 - x = 8$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-13 + -14 =$  $\underline{\hspace{2cm}}$	<b>20</b> $12^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{26}{5} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.13 =$$

\_\_\_\_\_

- 23**
- $$2.03 + 0.4 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.09 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.323 \\ \times 0.10 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$4.50 - 2.0 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{1}{2} =$$

$$\frac{5}{7} \cdot \frac{8}{3} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.40 \\ \times 0.3 \\ \hline \end{array}$$

$$-15 - -5 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 1 \frac{2}{5} \\ + 4 \frac{1}{5} \\ \hline \end{array}$$

- 32** Convert to decimal

$$\frac{3}{10} =$$

\_\_\_\_\_

- 33**
- $$10 - -15 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 80 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{16}{5} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 4 \frac{4}{9} \\ - 3 \frac{2}{9} \\ \hline \end{array}$$

- 37**
- $$0.2 \overline{)0.24}$$

$$-12 - 12 =$$

\_\_\_\_\_

- 39**
- $$40 \overline{)232}$$

- 40**
- $$\frac{9}{10} \div \frac{6}{7} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

**Reminder:** There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive. **NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 27 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	7	1	0	21.	$5\frac{1}{5}$	2	0
2.	16	1	0	22.	$\frac{13}{100}$	2	0
3.	$\frac{5}{11}$	2	0	23.	2.43	2	0
4.	21	1	0	24.	$\frac{9}{100}$	2	0
5.	$\frac{1}{3}$	1	0	25.	0.1323	3	0
6.	64	1	0	26.	2.50	2	0
7.	-8	2	0	27.	0.5	2	0
8.	8	1	0	28.	$\frac{40}{21}$ or $1\frac{19}{21}$	2	0
9.	$\frac{1}{2}$	1	0	29.	0.42	2	0
10.	45	1	0	30.	-10	3	0
11.	225	1	0	31.	$5\frac{3}{5}$	1	0
12.	$\frac{4}{17}$	1	0	32.	0.3	2	0
13.	3320	1	0	33.	25	3	0
14.	$\frac{1}{4}$	1	0	34.	40	2	0
15.	21,944	1	0	35.	$3\frac{1}{5}$	2	0
16.	35	1	0	36.	$1\frac{2}{9}$	2	0
17.	4	2	0	37.	1.2	3	0
18.	6	1	0	38.	-24	3	0
19.	-27	2	0	39.	5 r32; 5.8; $5\frac{32}{40}$ ; $5\frac{16}{20}$ ; $5\frac{8}{10}$ ; $5\frac{4}{5}$	3	0
20.	144	1	0	40.	$\frac{63}{60}$ ; $1\frac{3}{60}$ ; $1\frac{1}{20}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2



Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $7 + x = 38$  $x = \underline{\hspace{2cm}}$	<b>2</b> $3^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{14}{44} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $36 + x = 48$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{2}{22} =$  $\underline{\hspace{2cm}}$	<b>6</b> $5^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-10 + 9 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $6 + x = 44$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{3}{27} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 5 = 23$  $x = \underline{\hspace{2cm}}$	<b>11</b> $20^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{10}{24} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 141 \\ \times 42 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{7}{14} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 451 \\ \times 31 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 26 = 49$  $x = \underline{\hspace{2cm}}$
<b>17</b> $11 + -10 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $20 - x = 11$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-17 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $13^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{29}{2} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.27 =$$

\_\_\_\_\_

- 23**
- $$3.19 + 3.2 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.37 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.103 \\ \times 0.30 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$3.47 - 2.7 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{1}{4} =$$

$$\frac{8}{5} \cdot \frac{2}{3} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.32 \\ \times 0.1 \\ \hline \end{array}$$

$$-12 - -9 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 6 \frac{1}{9} \\ + 3 \frac{4}{9} \\ \hline \end{array}$$

- 32** Convert to decimal

$$\frac{1}{10} =$$

\_\_\_\_\_

- 33**
- $$7 - -15 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 38 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{28}{3} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 8 \frac{5}{7} \\ - 2 \frac{3}{7} \\ \hline \end{array}$$

- 37**
- $$0.4 \overline{)0.32}$$

$$-18 - 2 =$$

\_\_\_\_\_

- 39**
- $$22 \overline{)253}$$

- 40**
- $$\frac{9}{9} \div \frac{5}{7} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 28 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	31	1	0	21.	$14\frac{1}{2}$	2	0
2.	9	1	0	22.	$\frac{27}{100}$	2	0
3.	$\frac{7}{22}$	2	0	23.	6.39	2	0
4.	12	1	0	24.	$\frac{37}{100}$	2	0
5.	$\frac{1}{11}$	1	0	25.	0.3309	3	0
6.	25	1	0	26.	0.77	2	0
7.	-1	2	0	27.	0.25	2	0
8.	38	1	0	28.	$\frac{16}{15}$ or $1\frac{1}{15}$	2	0
9.	$\frac{1}{9}$	1	0	29.	0.132	2	0
10.	28	1	0	30.	-3	3	0
11.	400	1	0	31.	$9\frac{5}{9}$	1	0
12.	$\frac{5}{12}$	1	0	32.	0.1	2	0
13.	5922	1	0	33.	22	3	0
14.	$\frac{1}{2}$	1	0	34.	19	2	0
15.	13,981	1	0	35.	$9\frac{1}{3}$	2	0
16.	23	1	0	36.	$6\frac{2}{7}$	2	0
17.	1	2	0	37.	0.8	3	0
18.	9	1	0	38.	-20	3	0
19.	-30	2	0	39.	11 r11; 11.5; $11\frac{11}{22}$ ; $11\frac{1}{2}$	3	0
20.	169	1	0	40.	$\frac{63}{45}$ ; $1\frac{18}{45}$ ; $1\frac{2}{5}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $19 + x = 30$  $x = \underline{\hspace{2cm}}$	<b>2</b> $4^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{14}{50} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $7 + x = 31$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{2}{18} =$  $\underline{\hspace{2cm}}$	<b>6</b> $7^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-12 + 19 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $8 + x = 46$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{7}{28} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 28 = 10$  $x = \underline{\hspace{2cm}}$	<b>11</b> $17^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{12}{50} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 214 \\ \times 15 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{3}{24} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 104 \\ \times 24 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 25 = 28$  $x = \underline{\hspace{2cm}}$
<b>17</b> $6 + -9 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $18 - x = 7$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-1 + -17 =$  $\underline{\hspace{2cm}}$	<b>20</b> $16^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{21}{2} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.17 =$$

\_\_\_\_\_

- 23**
- $$4.08 + 2.8 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.99 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.202 \\ \times 0.20 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$5.51 - 4.3 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{3}{4} =$$

$$\frac{7}{4} \cdot \frac{7}{8} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.40 \\ \times 0.5 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$^{-}8 - ^{-}6 =$$

- 31**
- $$\begin{array}{r} 6\frac{3}{11} \\ + 2\frac{4}{11} \\ \hline \end{array}$$

- 32** Convert to decimal

$$\frac{5}{10} =$$

\_\_\_\_\_

- 33**
- $$18 - ^{-}12 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 40 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{22}{5} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 4\frac{2}{9} \\ - 1\frac{1}{9} \\ \hline \end{array}$$

- 37**
- $$0.2 \overline{)0.52}$$

$$^{-}17 - 13 =$$

\_\_\_\_\_

- 39**
- $$25 \overline{)160}$$

- 40**
- $$\frac{9}{10} \div \frac{5}{7} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 29 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	11	1	0	21.	$10\frac{1}{2}$	2	0
2.	16	1	0	22.	$\frac{17}{100}$	2	0
3.	$\frac{7}{25}$	2	0	23.	6.88	2	0
4.	24	1	0	24.	$\frac{99}{100}$	2	0
5.	$\frac{1}{9}$	1	0	25.	0.2404	3	0
6.	49	1	0	26.	1.21	2	0
7.	7	2	0	27.	0.75	2	0
8.	38	1	0	28.	$\frac{49}{32}$ or $1\frac{17}{32}$	2	0
9.	$\frac{1}{4}$	1	0	29.	0.7	2	0
10.	38	1	0	30.	-2	3	0
11.	289	1	0	31.	$8\frac{7}{11}$	1	0
12.	$\frac{6}{25}$	1	0	32.	0.5	2	0
13.	3210	1	0	33.	30	3	0
14.	$\frac{1}{8}$	1	0	34.	20	2	0
15.	2496	1	0	35.	$4\frac{2}{5}$	2	0
16.	3	1	0	36.	$3\frac{1}{9}$	2	0
17.	-3	2	0	37.	2.6	3	0
18.	11	1	0	38.	-30	3	0
19.	-18	2	0	39.	6 r10; 6.4; $6\frac{10}{25}$ ; $6\frac{2}{5}$	3	0
20.	256	1	0	40.	$\frac{63}{50}$ or $1\frac{13}{50}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $7 + x = 11$  $x = \underline{\hspace{2cm}}$	<b>2</b> $3^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{6}{50} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $5 + x = 22$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{5}{25} =$  $\underline{\hspace{2cm}}$	<b>6</b> $6^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-14 + 6 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $9 + x = 16$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{7}{21} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 4 = 36$  $x = \underline{\hspace{2cm}}$	<b>11</b> $13^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{14}{48} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 154 \\ \times 25 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{5}{10} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 315 \\ \times 26 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 22 = 40$  $x = \underline{\hspace{2cm}}$
<b>17</b> $13 + -5 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $15 - x = 9$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-14 + -10 =$  $\underline{\hspace{2cm}}$	<b>20</b> $10^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

<b>21</b> Write fraction as a mixed number $\frac{23}{4} =$  	<b>22</b> Convert to fraction $0.19 =$  	<b>23</b> $3.02 + 0.2 =$  	<b>24</b> Convert to fraction $0.03 =$  
<b>25</b> $\begin{array}{r} 1.120 \\ \times 0.30 \\ \hline \end{array}$	<b>26</b> $6.22 - 1.1 =$  	<b>27</b> Convert to decimal $\frac{1}{4} =$  	<b>28</b> $\frac{5}{8} \cdot \frac{7}{2} =$  
<b>29</b> $\begin{array}{r} 1.01 \\ \times 0.3 \\ \hline \end{array}$	<b>30</b> $-10 - -6 =$  	<b>31</b> $\begin{array}{r} 4\frac{3}{7} \\ + 6\frac{2}{7} \\ \hline \end{array}$	<b>32</b> Convert to decimal $\frac{7}{10} =$  
<b>33</b> $12 - -5 =$  	<b>34</b> $50\% \text{ of } 100 =$  	<b>35</b> Write fraction as a mixed number $\frac{15}{7} =$  	<b>36</b> $\begin{array}{r} 5\frac{3}{5} \\ - 2\frac{2}{5} \\ \hline \end{array}$
<b>37</b> $0.3 \overline{)0.36}$	<b>38</b> $-11 - 11 =$  	<b>39</b> $42 \overline{)231}$	<b>40</b> $\frac{9}{9} \div \frac{2}{5} =$  



Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 30 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	4	1	0	21.	$5\frac{3}{4}$	2	0
2.	9	1	0	22.	$\frac{19}{100}$	2	0
3.	$\frac{3}{25}$	2	0	23.	3.22	2	0
4.	17	1	0	24.	$\frac{3}{100}$	2	0
5.	$\frac{1}{5}$	1	0	25.	0.336	3	0
6.	36	1	0	26.	5.12	2	0
7.	-8	2	0	27.	0.25	2	0
8.	7	1	0	28.	$\frac{35}{16}$ or $2\frac{3}{16}$	2	0
9.	$\frac{1}{3}$	1	0	29.	0.303	2	0
10.	40	1	0	30.	-4	3	0
11.	169	1	0	31.	$10\frac{5}{7}$	1	0
12.	$\frac{7}{24}$	1	0	32.	0.7	2	0
13.	3850	1	0	33.	17	3	0
14.	$\frac{1}{2}$	1	0	34.	50	2	0
15.	8190	1	0	35.	$2\frac{1}{7}$	2	0
16.	18	1	0	36.	$3\frac{1}{5}$	2	0
17.	8	2	0	37.	1.2	3	0
18.	6	1	0	38.	-22	3	0
19.	-24	2	0	39.	5 r21; 5.5; $5\frac{21}{42}$ ; $5\frac{7}{14}$ ; $5\frac{3}{6}$ ; $5\frac{1}{2}$	3	0
20.	100	1	0	40.	$\frac{45}{18}$ ; $2\frac{9}{18}$ ; $2\frac{1}{2}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $33 + x = 36$  $x = \underline{\hspace{2cm}}$	<b>2</b> $7^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{8}{10} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $38 + x = 45$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{3}{15} =$  $\underline{\hspace{2cm}}$	<b>6</b> $4^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-6 + 2 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $21 + x = 32$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{4}{12} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 17 = 2$  $x = \underline{\hspace{2cm}}$	<b>11</b> $19^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{4}{50} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 331 \\ \times 42 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{11}{77} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 514 \\ \times 32 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 29 = 35$  $x = \underline{\hspace{2cm}}$
<b>17</b> $8 + -4 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $24 - x = 9$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-6 + -14 =$  $\underline{\hspace{2cm}}$	<b>20</b> $11^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{23}{5} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.89 =$$

\_\_\_\_\_

- 23**
- $$2.13 + 2.8 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.71 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.235 \\ \times 0.10 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$4.18 - 3.1 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{3}{4} =$$

\_\_\_\_\_

- 28**
- $$\frac{9}{2} \cdot \frac{3}{8} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.02 \\ \times 0.4 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-18 - -16 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 4 \frac{2}{7} \\ + 3 \frac{4}{7} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{2}{10} =$$

\_\_\_\_\_

- 33**
- $$16 - -9 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 74 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{22}{3} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 5 \frac{5}{11} \\ - 4 \frac{3}{11} \\ \hline \end{array}$$

\_\_\_\_\_

- 37**
- $$0.2 \overline{)0.24}$$

\_\_\_\_\_

- 38**
- $$-5 - 4 =$$

\_\_\_\_\_

- 39**
- $$12 \overline{)414}$$

\_\_\_\_\_

- 40**
- $$\frac{9}{10} \div \frac{6}{7} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 31 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	3	1	0	21.	$4\frac{3}{5}$	2	0
2.	49	1	0	22.	$\frac{89}{100}$	2	0
3.	$\frac{4}{5}$	2	0	23.	4.93	2	0
4.	7	1	0	24.	$\frac{71}{100}$	2	0
5.	$\frac{1}{5}$	1	0	25.	0.1235	3	0
6.	16	1	0	26.	1.08	2	0
7.	-4	2	0	27.	0.75	2	0
8.	11	1	0	28.	$\frac{27}{16}$ or $1\frac{11}{16}$	2	0
9.	$\frac{1}{3}$	1	0	29.	0.408	2	0
10.	19	1	0	30.	-2	3	0
11.	361	1	0	31.	$7\frac{6}{7}$	1	0
12.	$\frac{2}{25}$	1	0	32.	0.2	2	0
13.	13,902	1	0	33.	25	3	0
14.	$\frac{1}{7}$	1	0	34.	37	2	0
15.	16,448	1	0	35.	$7\frac{1}{3}$	2	0
16.	6	1	0	36.	$1\frac{2}{11}$	2	0
17.	4	2	0	37.	1.2	3	0
18.	15	1	0	38.	-9	3	0
19.	-20	2	0	39.	34 r6; 34.5; $34\frac{6}{12}$ ; $34\frac{2}{4}$ ; $34\frac{1}{2}$	3	0
20.	121	1	0	40.	$\frac{63}{60}$ ; $1\frac{3}{60}$ ; $1\frac{1}{20}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $23 + x = 37$  $x = \underline{\hspace{2cm}}$	<b>2</b> $6^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{6}{52} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $8 + x = 35$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{7}{14} =$  $\underline{\hspace{2cm}}$	<b>6</b> $9^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-13 + 17 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $15 + x = 20$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{3}{18} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 25 = 2$  $x = \underline{\hspace{2cm}}$	<b>11</b> $14^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{12}{21} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 530 \\ \times 35 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{5}{15} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 230 \\ \times 24 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 18 = 38$  $x = \underline{\hspace{2cm}}$
<b>17</b> $12 + -3 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $49 - x = 48$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-2 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $19^2 =$  $\underline{\hspace{2cm}}$

Student:

Teacher:

Date:

- 21** Write fraction as a mixed number

$$\frac{5}{3} =$$

\_\_\_\_\_

- 22** Convert to fraction

$$0.59 =$$

\_\_\_\_\_

- 23**
- $$1.04 + 0.8 =$$

\_\_\_\_\_

- 24** Convert to fraction

$$0.87 =$$

\_\_\_\_\_

- 25**
- $$\begin{array}{r} 1.324 \\ \times 0.20 \\ \hline \end{array}$$

\_\_\_\_\_

- 26**
- $$3.57 - 3.4 =$$

\_\_\_\_\_

- 27** Convert to decimal
- $$\frac{1}{5} =$$

\_\_\_\_\_

- 28**
- $$\frac{4}{5} \cdot \frac{7}{5} =$$

\_\_\_\_\_

- 29**
- $$\begin{array}{r} 1.04 \\ \times 0.1 \\ \hline \end{array}$$

\_\_\_\_\_

- 30**
- $$-2 - -9 =$$

\_\_\_\_\_

- 31**
- $$\begin{array}{r} 3 \frac{1}{11} \\ + 3 \frac{1}{11} \\ \hline \end{array}$$

\_\_\_\_\_

- 32** Convert to decimal
- $$\frac{1}{10} =$$

\_\_\_\_\_

- 33**
- $$14 - -7 =$$

\_\_\_\_\_

- 34**
- $$50\% \text{ of } 98 =$$

\_\_\_\_\_

- 35** Write fraction as a mixed number
- $$\frac{29}{4} =$$

\_\_\_\_\_

- 36**
- $$\begin{array}{r} 6 \frac{5}{14} \\ - 2 \frac{4}{14} \\ \hline \end{array}$$

- 37**
- $$0.5 \overline{)0.20}$$

\_\_\_\_\_

- 38**
- $$-15 - 15 =$$

\_\_\_\_\_

- 39**
- $$55 \overline{)462}$$

\_\_\_\_\_

- 40**
- $$\frac{9}{10} \div \frac{1}{9} =$$

\_\_\_\_\_

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 32 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	14	1	0	21.	$1\frac{2}{3}$	2	0
2.	36	1	0	22.	$\frac{59}{100}$	2	0
3.	$\frac{3}{26}$	2	0	23.	1.84	2	0
4.	27	1	0	24.	$\frac{87}{100}$	2	0
5.	$\frac{1}{2}$	1	0	25.	0.2648	3	0
6.	81	1	0	26.	0.17	2	0
7.	4	2	0	27.	0.20	2	0
8.	5	1	0	28.	$\frac{28}{25}$ or $1\frac{3}{25}$	2	0
9.	$\frac{1}{6}$	1	0	29.	0.104	2	0
10.	27	1	0	30.	7	3	0
11.	196	1	0	31.	$6\frac{2}{11}$	1	0
12.	$\frac{4}{7}$	1	0	32.	0.1	2	0
13.	18,550	1	0	33.	21	3	0
14.	$\frac{1}{3}$	1	0	34.	49	2	0
15.	5520	1	0	35.	$7\frac{1}{4}$	2	0
16.	20	1	0	36.	$4\frac{1}{14}$	2	0
17.	9	2	0	37.	0.4	3	0
18.	1	1	0	38.	-30	3	0
19.	-15	2	0	39.	8 r22; 8.4; $8\frac{22}{55}$ ; $8\frac{2}{5}$	3	0
20.	361	1	0	40.	$\frac{81}{10}$ ; $8\frac{1}{10}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2

Student:

Teacher:

Date:

<b>1</b> Solve for $x$ $27 + x = 42$  $x = \underline{\hspace{2cm}}$	<b>2</b> $5^2 =$  $\underline{\hspace{2cm}}$	<b>3</b> Write the fraction in lowest terms $\frac{12}{15} =$  $\underline{\hspace{2cm}}$	<b>4</b> Solve for $x$ $39 + x = 47$  $x = \underline{\hspace{2cm}}$
<b>5</b> Write the fraction in lowest terms $\frac{11}{77} =$  $\underline{\hspace{2cm}}$	<b>6</b> $8^2 =$  $\underline{\hspace{2cm}}$	<b>7</b> $-13 + 9 =$  $\underline{\hspace{2cm}}$	<b>8</b> Solve for $x$ $12 + x = 44$  $x = \underline{\hspace{2cm}}$
<b>9</b> Write the fraction in lowest terms $\frac{5}{25} =$  $\underline{\hspace{2cm}}$	<b>10</b> Solve for $x$ $x - 20 = 6$  $x = \underline{\hspace{2cm}}$	<b>11</b> $15^2 =$  $\underline{\hspace{2cm}}$	<b>12</b> Write the fraction in lowest terms $\frac{14}{50} =$  $\underline{\hspace{2cm}}$
<b>13</b> $\begin{array}{r} 115 \\ \times 30 \\ \hline \end{array}$	<b>14</b> Write the fraction in lowest terms $\frac{3}{9} =$  $\underline{\hspace{2cm}}$	<b>15</b> $\begin{array}{r} 231 \\ \times 35 \\ \hline \end{array}$	<b>16</b> Solve for $x$ $x + 18 = 22$  $x = \underline{\hspace{2cm}}$
<b>17</b> $2 + -3 =$  $\underline{\hspace{2cm}}$	<b>18</b> Solve for $x$ $42 - x = 19$  $x = \underline{\hspace{2cm}}$	<b>19</b> $-7 + -13 =$  $\underline{\hspace{2cm}}$	<b>20</b> $13^2 =$  $\underline{\hspace{2cm}}$



Student:

Teacher:

Date:

<b>21</b> Write fraction as a mixed number $\frac{25}{2} =$  	<b>22</b> Convert to fraction $0.61 =$  	<b>23</b> $1.03 + 0.9 =$  	<b>24</b> Convert to fraction $0.83 =$  
<b>25</b> $\begin{array}{r} 1.214 \\ \times 0.20 \\ \hline \end{array}$	<b>26</b> $3.76 - 2.6 =$  	<b>27</b> Convert to decimal $\frac{9}{12} =$  	<b>28</b> $\frac{5}{2} \cdot \frac{3}{7} =$  
<b>29</b> $\begin{array}{r} 1.12 \\ \times 0.1 \\ \hline \end{array}$	<b>30</b> $-3 - -10 =$  	<b>31</b> $\begin{array}{r} 6\frac{1}{9} \\ + 3\frac{4}{9} \\ \hline \end{array}$	<b>32</b> Convert to decimal $\frac{9}{10} =$  
<b>33</b> $5 - -6 =$  	<b>34</b> $50\% \text{ of } 54 =$  	<b>35</b> Write fraction as a mixed number $\frac{21}{5} =$  	<b>36</b> $\begin{array}{r} 9\frac{5}{10} \\ - 6\frac{2}{10} \\ \hline \end{array}$
<b>37</b> $0.3 \overline{)0.15}$	<b>38</b> $-8 - 4 =$  	<b>39</b> $40 \overline{)344}$	<b>40</b> $\frac{8}{9} \div \frac{6}{7} =$  

Student:

Teacher:

Date:

*Reminder:* There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. Note that the answer key provides the correct answers for each problem, but is not exhaustive.

**NOTE:** Unless a mixed number is specifically requested, a reduced improper fraction may be considered the simplest form and scored as correct. For more information and examples of alternative correct answers, please refer to the Scoring section of the M-COMP manual.

### Grade 7, Probe 33 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	15	1	0	21.	$12\frac{1}{2}$	2	0
2.	25	1	0	22.	$\frac{61}{100}$	2	0
3.	$\frac{4}{5}$	2	0	23.	1.93	2	0
4.	8	1	0	24.	$\frac{83}{100}$	2	0
5.	$\frac{1}{7}$	1	0	25.	0.2428	3	0
6.	64	1	0	26.	1.16	2	0
7.	-4	2	0	27.	0.75	2	0
8.	32	1	0	28.	$\frac{15}{14}$ or $1\frac{1}{14}$	2	0
9.	$\frac{1}{5}$	1	0	29.	0.112	2	0
10.	26	1	0	30.	7	3	0
11.	225	1	0	31.	$9\frac{5}{9}$	1	0
12.	$\frac{7}{25}$	1	0	32.	0.9	2	0
13.	3450	1	0	33.	11	3	0
14.	$\frac{1}{3}$	1	0	34.	27	2	0
15.	8085	1	0	35.	$4\frac{1}{5}$	2	0
16.	4	1	0	36.	$3\frac{3}{10}$	2	0
17.	-1	2	0	37.	0.5	3	0
18.	23	1	0	38.	-12	3	0
19.	-20	2	0	39.	8 r24; 8.6; $8\frac{24}{40}$ ; $8\frac{12}{20}$ ; $8\frac{6}{10}$ ; $8\frac{3}{5}$	3	0
20.	169	1	0	40.	$\frac{56}{54}$ ; $1\frac{2}{54}$ ; $1\frac{1}{27}$	3	0

Subtotal 1

Subtotal 2

TOTAL = Subtotal 1 + Subtotal 2