$$7^2 =$$

$$27 + x = 48$$

$$8^3 =$$

**-**3 • **-**9 =

6

14

$$\bullet$$
 Solve for  $x$ 

$$5x = 80$$

$$-14 - 27 + 27 =$$

Solve for 
$$x$$

$$x \div 3 = 8$$

Solve for 
$$x$$

$$3x = 36$$

Solve for 
$$x$$

$$x - 34 = 9$$

$$0.77 =$$

Convert to

 $\frac{4}{5} =$ 

decimal

Convert to

0.19 =

fraction

**1**5 Write fraction as mixed number

$$\frac{15}{2} =$$

16

$$18^{2} =$$

13

18 Solve for *x* 

$$12 = 2x + 2$$

19 Write fraction as mixed number

$$\frac{23}{4} =$$

$$\frac{4}{7} \bullet \frac{1}{8} =$$

40% of 65=

22 Write the answer in lowest terms

$$\frac{8}{3} \cdot \frac{9}{11} =$$

**23** Solve for x

$$36 = 3x + 9$$

 $X = \underline{\hspace{1cm}}$ 

24

60% of 70=

25

$$13^3 =$$

180% of 110=

26

27

$$\begin{array}{c} \textbf{1.011} \\ \times \textbf{0.11} \end{array}$$

28

$$1.32 \times 0.3$$

29

195% of 120=

30 Convert to decimal

$$\frac{5}{8} =$$

**31** Write the answer in lowest terms

$$\frac{7}{9} \div \frac{4}{5} =$$

32

Write the answer in lowest terms

$$1 \frac{5}{12} + 2 \frac{2}{12}$$

34

Write the answer in lowest terms

$$3\frac{4}{6}$$
  $2\frac{1}{3}$ 

36 Solve for x

$$\frac{X}{2} = 17$$

Write the answer in lowest terms

$$1 \frac{1}{3} \bullet 1 \frac{1}{5} =$$

38 Write the answer in lowest terms

$$\frac{6}{8} \div \frac{4}{7} =$$

**39** Write the answer in lowest terms

$$5\frac{5}{7}$$
 +  $1\frac{5}{14}$ 

$$\begin{array}{r}
 7 \overline{\smash{)}\, 10} \\
 -2 \overline{\smash{)}\, 4} \\
 10
 \end{array}$$

**Grade 8, Probe 4 Answer Key** 

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	49	1	0	21.	26	3	0
2.	21	1	0	22.	$2\frac{2}{11}$	2	0
3.	<b>-</b> 70	1	0	23.	9	2	0
4.	512	1	0	24.	42	3	0
5.	16	1	0	25.	2197	3	0
6.	27	1	0	26.	198	3	0
7.	<b>-</b> 14	2	0	27.	0.11121	3	0
8.	24	1	0	28.	0.396	2	0
9.	12	1	0	29.	234	3	0
10.	43	1	0	30.	0.625	3	0
11.	77 100	1	0	31.	$\frac{35}{36}$	3	0
12.	<del>-</del> 29	1	0	32.	1.1	3	0
13.	0.8	1	0	33.	$3\frac{7}{12}$	2	0
14.	19 100	1	0	34.	0.4	3	0
15.	$7\frac{1}{2}$	2	0	35.	$1\frac{1}{3}$	3	0
16.	324	2	0	36.	34	2	0
17.	5	2	0	37.	$1\frac{3}{5}$	3	0
18.	5	1	0	38.	$1 \frac{3}{5} \\ 1 \frac{5}{16}$	3	0
19.	5 3/4	2	0	39.	$7\frac{1}{14}$	3	0
20.	1/14	2	0	40.	$5\frac{1}{10}$	2	0
	Subtotal	1			Subtotal 2		

$$2^2 =$$

$$29 + x = 48$$

**3** 

$$1^{3} =$$

Solve for *x* 

$$7x = 133$$

6

8 Solve for x

$$x \div 6 = 8$$

9 Solve for x

$$3x = 63$$

10 Solve for *x* 

14

$$x - 29 = 4$$

Convert to fraction

$$0.9 =$$

12

Convert to

 $\frac{6}{10} =$ 

decimal

Convert to

0.41 =

fraction

**1**5 Write fraction as mixed number

$$\frac{26}{6} =$$

16

$$19^2 =$$

17

13

18 Solve for *x* 

$$80 = 9x + 8$$

19 Write fraction as mixed number

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

20

$$\frac{2}{3} \cdot \frac{6}{7} =$$

Write the answer

in lowest terms

60% of 55=

22 Write the answer in lowest terms

$$\frac{5}{4} \bullet \frac{9}{11} =$$

**23** Solve for *x* 

$$58 = 8x + 2$$

 $X = \underline{\hspace{1cm}}$ 

24

20% of 15=

25

$$17^3 =$$

26

105% of 120=

27

28

$$1.02 \times 0.4$$

29

200% of 110=

30 Convert to decimal

$$\frac{3}{24} =$$

**31** Write the answer in lowest terms

$$\frac{1}{5} \div \frac{8}{9} =$$

32

Write the answer in lowest terms

$$1\frac{3}{8} + 2\frac{4}{8}$$

34

Write the answer in lowest terms

$$2\frac{3}{4}$$
 $1\frac{1}{2}$ 

36 Solve for x

$$\frac{X}{2} = 16$$

Write the answer in lowest terms

$$3\frac{1}{2} \bullet 3\frac{1}{4} =$$

38 Write the answer in lowest terms

$$\frac{6}{8} \div \frac{4}{7} =$$

**39** Write the answer in lowest terms

$$18 \frac{1}{2} + 3 \frac{5}{6}$$

$$6\frac{3}{8}$$
  $-1\frac{2}{8}$ 

**Grade 8, Probe 5 Answer Key** 

Item		Grade	o, F10De	Item	er Key		
No.	Answer	Correct	Incorrect	No.	Answer	Correct	Incorrect
1.	4	1	0	21.	33	3	0
2.	19	1	0	22.	$1\frac{1}{44}$	2	0
3.	<b>-</b> 42	1	0	23.	7	2	0
4.	1	1	0	24.	3	3	0
5.	19	1	0	25.	4913	3	0
6.	70	1	0	26.	126	3	0
7.	<del>-</del> 78	2	0	27.	0.13299	3	0
8.	48	1	0	28.	0.408	2	0
9.	21	1	0	29.	220	3	0
10.	33	1	0	30.	0.125	3	0
11.	9 10	1	0	31.	9 40	3	0
12.	<b>-</b> 20	1	0	32.	0.3	3	0
13.	0.6	1	0	33.	$3\frac{7}{8}$	2	0
14.	41 100	1	0	34.	0.5	3	0
15.	$4\frac{1}{3}$	2	0	35.	$1\frac{1}{4}$	3	0
16.	361	2	0	36.	32	2	0
17.	15	2	0	37.	$11\frac{3}{8}$	3	0
18.	8	1	0	38.	$1\frac{5}{16}$	3	0
19.	$1\frac{4}{5}$ $\frac{4}{7}$	2	0	39.	$22\frac{1}{3}$	3	0
20.	4 7	2	0	40.	$5\frac{3}{8}$	2	0
	Subtotal 1 Subtotal 2						

TOTAL GLAVIA GLAVIA	
TOTAL = Subtotal 1 + Subtotal 2	

$$9^2 =$$

$$18 + x = 33$$

$$7^3 =$$

$$\bullet$$
 Solve for  $x$ 

$$3x = 60$$

6

14

Solve for 
$$x$$

$$x \div 5 = 6$$

Solve for 
$$x$$

$$2x = 24$$

$$\bigcirc$$
 Solve for  $x$ 

$$x - 38 = 3$$

$$0.17 =$$

Convert to

 $\frac{7}{10} =$ 

decimal

Convert to

0.3 =

fraction

**1**5 Write fraction as mixed number

$$\frac{19}{3} =$$

16

$$17^2 =$$

13

$$-12 - -7 - -9 =$$

$$\bigcirc$$
 Solve for  $x$ 

$$9 = 2x + 3$$

19 Write fraction as mixed number

$$\frac{9}{6}$$
 =

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

22 Write the answer in lowest terms

$$\frac{9}{2} \cdot \frac{3}{11} =$$

23 Solve for *x* 

$$23 = 7x + 2$$

25

$$19^3 =$$

26

27

28

29

30 Convert to decimal

$$\frac{5}{8} =$$

**31** Write the answer in lowest terms

$$\frac{1}{7} \div \frac{8}{9} =$$

32

Write the answer in lowest terms

$$3 \frac{1}{11} + 2 \frac{1}{11}$$

34

Write the answer in lowest terms

$$-2\frac{4}{15}$$

36 Solve for x

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

Write the answer in lowest terms

$$1 \frac{1}{2} \bullet 1 \frac{2}{3} =$$

38 Write the answer in lowest terms

$$\frac{2}{4} \div \frac{1}{3} =$$

**39** Write the answer in lowest terms

$$15\frac{3}{5}$$
 + 2 $\frac{5}{10}$ 

$$-1\frac{4}{8}$$

**Grade 8, Probe 6 Answer Key** 

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	81	1	0	21.	36	3	0
2.	15	1	0	22.	$1\frac{5}{22}$	2	0
3.	<b>-</b> 70	1	0	23.	3	2	0
4.	343	1	0	24.	9	3	0
5.	20	1	0	25.	6859	3	0
6.	14	1	0	26.	121	3	0
7.	12	2	0	27.	0.11231	3	0
8.	30	1	0	28.	0.372	2	0
9.	12	1	0	29.	222	3	0
10.	41	1	0	30.	0.625	3	0
11.	17 100	1	0	31.	9 56	3	0
12.	<del>-</del> 26	1	0	32.	1.3	3	0
13.	0.7	1	0	33.	$5\frac{2}{11}$	2	0
14.	3 10	1	0	34.	2.6	3	0
15.	$6\frac{1}{3}$	2	0	35.	$1\frac{8}{15}$	3	0
16.	289	2	0	36.	26	2	0
17.	4	2	0	37.	$2\frac{1}{2}$	3	0
18.	3	1	0	38.	$1\frac{1}{2}$	3	0
19.	$1\frac{1}{2}$	2	0	39.	$18\frac{1}{10}$	3	0
20.	25 36	2	0	40.	$6\frac{1}{8}$	2	0
	Subtotal	1	]		Subtotal 2		

TOTAL GLAVIA GLAVIA	
TOTAL = Subtotal 1 + Subtotal 2	

$$3^2 =$$

$$18 + x = 22$$

**3** 

4

$$9^3 =$$

$$\bullet$$
 Solve for  $x$ 

$$5x = 60$$

6

$$-5 - 9 + 2 =$$

Solve for 
$$x$$

$$x \div 8 = 4$$

Solve for 
$$x$$

$$7x = 91$$

Solve for 
$$x$$

$$x - 40 = 2$$

$$0.73 =$$

Convert to

 $\frac{3}{5} =$ 

decimal

Convert to

0.13 =

fraction

14

**1**5 Write fraction as mixed number

$$\frac{15}{6} =$$

16

$$18^{2} =$$

13

$$-14 - -8 - -2 =$$

18 Solve for *x* 

$$68 = 8x + 4$$

19 Write fraction as mixed number

$$\frac{16}{3} =$$

$$=$$
  $\frac{3}{4}$  •

20

$$\frac{3}{4} \bullet \frac{2}{3} =$$

Write the answer

in lowest terms

70% of 10=

Write the answer in lowest terms

$$\frac{7}{2} \bullet \frac{9}{11} =$$

\_\_\_\_

23 Solve for x

$$89 = 9x + 8$$

X = \_\_\_\_\_

24

20% of 40=

\_\_\_\_

25

$$16^3 =$$

26

27

28

$$1.21 \times 0.3$$

29

120% of 170=

30 Convert to decimal

$$\frac{14}{16} =$$

Write the answer in lowest terms

$$\frac{1}{9} \div \frac{8}{9} =$$

32

Write the answer in lowest terms

$$3\frac{5}{14} + 6\frac{4}{14}$$

34

Write the answer in lowest terms

$$6\frac{2}{7}$$
 $5\frac{1}{14}$ 

$$-5\frac{1}{14}$$

36 Solve for x

$$\frac{x}{2} = 10$$

$$X =$$

Write the answer in lowest terms

$$3\frac{1}{3} \bullet 3\frac{1}{5} =$$

Write the answer in lowest terms

$$\frac{2}{3} \div \frac{3}{5} =$$

Write the answer in lowest terms

$$17 \frac{1}{2} + 3 \frac{3}{4}$$

$$-5\frac{2}{4}$$

**Grade 8, Probe 7 Answer Key** 

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	9	1	0	21.	7	3	0
2.	4	1	0	22.	$2\frac{19}{22}$	2	0
3.	<b>-</b> 10	1	0	23.	9	2	0
4.	729	1	0	24.	8	3	0
5.	12	1	0	25.	4096	3	0
6.	16	1	0	26.	176	3	0
7.	<b>-</b> 12	2	0	27.	0.1206	3	0
8.	32	1	0	28.	0.363	2	0
9.	13	1	0	29.	204	3	0
10.	42	1	0	30.	0.875	3	0
11.	$\frac{73}{100}$	1	0	31.	1/8	3	0
12.	<del>-</del> 31	1	0	32.	0.3	3	0
13.	0.6	1	0	33.	9 9 14	2	0
14.	13 100	1	0	34.	0.6	3	0
15.	$2\frac{1}{2}$	2	0	35.	$1\frac{3}{14}$	3	0
16.	324	2	0	36.	20	2	0
17.	<b>-</b> 4	2	0	37.	$10\frac{2}{3}$	3	0
18.	8	1	0	38.	$1\frac{1}{9}$	3	0
19.	5 1/3	2	0	39.	$21\frac{1}{4}$	3	0
20.	1/2	2	0	40.	$2\frac{1}{4}$	2	0
	Subtotal	1	]		Subtotal 2		

$$7^2 =$$

$$6 + x = 42$$

**3** 

Solve for *x* 

$$3x = 84$$

6

*X* = \_\_\_\_\_

7

$$-2 - -21 + 28 =$$

8 Solve for x

$$x \div 2 = 9$$

X =

 $2^3 =$ 

2x = 58

9 Solve for x

Solve for 
$$x$$

x - 28 = 5

$$0.37 =$$

Convert to

 $\frac{2}{4} =$ 

decimal

Convert to

0.3 =

fraction

**1**5 Write fraction as mixed number

$$\frac{22}{8} =$$

16

$$16^2 =$$

17

13

$$-12 - -16 - -1 =$$

18 Solve for *x* 

14

$$47 = 5x + 2$$

19 Write fraction as mixed number

$$\frac{40}{3} =$$

20 Write the answer in lowest terms

 $\frac{1}{2} \bullet \frac{5}{8} =$ 

$$\frac{1}{2} \bullet \frac{5}{8} =$$

22 Write the answer in lowest terms

$$\frac{9}{3} \cdot \frac{8}{11} =$$

$$67 = 8x + 3$$

 $X = \underline{\hspace{1cm}}$ 

Solve for *x* 

23

$$13^{3} =$$

$$\frac{14}{16} =$$

**31** Write the answer in lowest terms

$$\frac{4}{6} \div \frac{6}{7} =$$

$$1 \frac{3}{14} + 2 \frac{2}{14}$$

Write the answer in lowest terms

$$5 \frac{2}{3}$$

$$1 \frac{1}{6}$$

$$-1\frac{1}{6}$$

36 Solve for x

$$\frac{X}{7} = 4$$

$$3\frac{2}{9} \bullet 4\frac{4}{7} =$$

38 Write the answer in lowest terms

$$\frac{8}{9} \div \frac{4}{9} =$$

**39** Write the answer in lowest terms

$$+2\frac{5}{12}$$

$$-1\frac{1}{5}$$

Grade 8, Probe 8 Answer Kev

	Grade 8, Probe 8 Answer Key							
Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect	
1.	49	1	0	21.	7	3	0	
2.	36	1	0	22.	$2\frac{2}{11}$	2	0	
3.	<del>-</del> 24	1	0	23.	8	2	0	
4.	8	1	0	24.	7	3	0	
5.	28	1	0	25.	2197	3	0	
6.	21	1	0	26.	174	3	0	
7.	47	2	0	27.	0.15075	3	0	
8.	18	1	0	28.	0.132	2	0	
9.	29	1	0	29.	300	3	0	
10.	33	1	0	30.	0.875	3	0	
11.	37 100	1	0	31.	$\frac{7}{9}$	3	0	
12.	<b>-</b> 20	1	0	32.	1.1	3	0	
13.	0.5	1	0	33.	3 5/14	2	0	
14.	$\frac{3}{10}$	1	0	34.	0.9	3	0	
15.	$2\frac{3}{4}$	2	0	35.	$4\frac{1}{2}$	3	0	
16.	256	2	0	36.	28	2	0	
17.	5	2	0	37.	$14 \frac{46}{63}$	3	0	
18.	9	1	0	38.	2	3	0	
19.	$13\frac{1}{3}$	2	0	39.	7 1/6	3	0	
20.	<u>5</u> 16	2	0	40.	$7\frac{1}{6}$ $3\frac{3}{5}$	2	0	
Subtotal 1 Subtotal 2								

TOTAL = Subtotal 1 + Subtotal 2	

$$28 + x = 47$$

**-**4 • **-**7 =

10

14

 $6^3 =$ 

 $\bullet$  Solve for x

$$4x = 72$$

Solve for 
$$x$$

$$x \div 4 = 10$$

X =

2x = 90

9 Solve for x

Solve for *x* 

x - 19 = 5

Convert to

 $\frac{9}{10} =$ 

decimal

Convert to

0.67 =

fraction

**1**5 Write fraction as mixed number

$$\frac{27}{4} =$$

16

20

$$10^2 =$$

17

13

$$-16 - -7 - -2 =$$

18 Solve for *x* 

$$84 = 9x + 3$$

19 Write fraction as mixed number

$$\frac{11}{6}$$
 =

$$\frac{3}{5} \bullet \frac{7}{10} =$$

Write the answer

in lowest terms

20% of 25=

Write the answer in lowest terms

$$\frac{8}{4} \bullet \frac{9}{11} =$$

23 Solve for x

$$63 = 8x + 7$$

X = \_\_\_\_\_

24

30% of 40=

\_\_\_\_

25

$$20^{3} =$$

26

27

28

29

180% of 140=

30 Convert to decimal

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

Write the answer in lowest terms

$$\frac{2}{7} \div \frac{6}{7} =$$

32

Write the answer in lowest terms

$$2\frac{1}{3}$$

34

Write the answer in lowest terms

$$-4\frac{1}{3}$$

36 Solve for x

$$\frac{x}{3} = 7$$

Write the answer in lowest terms

$$1\frac{1}{3} \bullet 1\frac{3}{4} =$$

Write the answer in lowest terms

$$\frac{8}{9} \div \frac{2}{6} =$$

Write the answer in lowest terms

$$6\frac{5}{8}$$
 + 2 $\frac{5}{16}$ 

$$5\frac{5}{8}$$
 $-3\frac{3}{8}$ 

**Grade 8, Probe 9 Answer Key** 

		Graue	0, 11000	2 9 Alisw	ver Key		
Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	25	1	0	21.	5	3	0
2.	19	1	0	22.	$1\frac{7}{11}$	2	0
3.	<b>-</b> 85	1	0	23.	7	2	0
4.	216	1	0	24.	12	3	0
5.	18	1	0	25.	8000	3	0
6.	28	1	0	26.	207	3	0
7.	<b>-</b> 50	2	0	27.	0.14028	3	0
8.	40	1	0	28.	0.248	2	0
9.	45	1	0	29.	252	3	0
10.	24	1	0	30.	0.375	3	0
11.	93 100	1	0	31.	$\frac{1}{3}$	3	0
12.	<del>-</del> 27	1	0	32.	0.6	3	0
13.	0.9	1	0	33.	$4\frac{2}{3}$	2	0
14.	67 100	1	0	34.	1.7	3	0
15.	$6\frac{3}{4}$	2	0	35.	$1\frac{1}{9}$	3	0
16.	100	2	0	36.	21	2	0
17.	<del>-</del> 7	2	0	37.	$2\frac{1}{3}$	3	0
18.	9	1	0	38.	$2\frac{2}{3}$	3	0
19.	$1\frac{5}{6}$	2	0	39.	8 <del>15</del> 16	3	0
20.	21 50	2	0	40.	$2\frac{1}{4}$	2	0
Subtotal 1 Subtotal 2							

TOTAL GLAVIA GLAVIA	
TOTAL = Subtotal 1 + Subtotal 2	

$$7 + x = 45$$

$$1^{3} =$$

$$\bullet$$
 Solve for  $x$ 

$$7x = 84$$

6

14

Solve for 
$$x$$

$$x \div 3 = 12$$

Solve for 
$$x$$

$$5x = 85$$

$$\bigcirc$$
 Solve for  $x$ 

$$x - 6 = 26$$

$$0.37 =$$

Convert to

 $\frac{4}{8} =$ 

decimal

Convert to

0.47 =

fraction

$$\frac{39}{4} =$$

13

$$-3 - -16 - -6 =$$

Solve for 
$$x$$

$$24 = 2x + 8$$

$$\frac{27}{6}$$
 =

$$\frac{2}{3} \cdot \frac{5}{7} =$$

25% of 20=

Write the answer in lowest terms

$$\frac{8}{6} \cdot \frac{9}{11} =$$

23 Solve for x

$$38 = 9x + 2$$

X = \_\_\_\_

24

10% of 60=

25

 $10^3 =$ 

26

120% of 120=

27

1.005 × 0.14 28

1.01 × 0.4

29

180% of 120=

30 Convert to decimal

$$\frac{10}{16} =$$

Write the answer in lowest terms

$$\frac{6}{9} \div \frac{6}{8} =$$

32

0.2 0.12

Write the answer in lowest terms

$$5\frac{3}{13} + 2\frac{4}{13}$$

34

Write the answer in lowest terms

$$5\frac{1}{2}$$
 $4\frac{1}{4}$ 

36 Solve for *x* 

$$\frac{X}{2} = 22$$

Write the answer in lowest terms

$$4\frac{1}{3} \cdot 4\frac{1}{4} =$$

Write the answer in lowest terms

$$\frac{9}{10} \div \frac{3}{4} =$$

Write the answer in lowest terms

$$14\frac{2}{3} + 3\frac{5}{6}$$

$$5\frac{5}{8}$$
 $-3\frac{3}{8}$ 

**Grade 8, Probe 10 Answer Key** 

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	16	1	0	21.	5	3	0
2.	38	1	0	22.	$1\frac{1}{11}$	2	0
3.	<b>-</b> 48	1	0	23.	4	2	0
4.	1	1	0	24.	6	3	0
5.	12	1	0	25.	1000	3	0
6.	30	1	0	26.	144	3	0
7.	<b>-</b> 51	2	0	27.	0.1407	3	0
8.	36	1	0	28.	0.404	2	0
9.	17	1	0	29.	216	3	0
10.	32	1	0	30.	0.625	3	0
11.	37 100	1	0	31.	8 9	3	0
12.	<del>-</del> 25	1	0	32.	0.6	3	0
13.	0.5	1	0	33.	$7\frac{7}{13}$	2	0
14.	47 100	1	0	34.	0.6	3	0
15.	$9\frac{3}{4}$	2	0	35.	$1\frac{1}{4}$	3	0
16.	121	2	0	36.	44	2	0
17.	19	2	0	37.	$18\frac{5}{12}$	3	0
18.	8	1	0	38.	$1\frac{1}{5}$	3	0
19.	$4\frac{1}{2}$	2	0	39.	$18\frac{1}{2}$	3	0
20.	10 21	2	0	40.	$2\frac{1}{4}$	2	0
	Subtotal	1			Subtotal 2		

TOTAL = Subtotal 1 + Subtotal 2

$$3^2 =$$

$$36 + x = 72$$

$$2^3 \; = \;$$

$$\bullet$$
 Solve for  $x$ 

$$3x = 126$$

6

Solve for 
$$x$$

$$x \div 2 = 10$$

Solve for 
$$x$$

$$2x = 38$$

$$\bigcirc$$
 Solve for  $x$ 

$$x - 17 = 5$$

$$0.7 =$$

$$^{-}2 + ^{-}17 + ^{-}6 =$$

Convert to

decimal

Convert to

fraction

$$\frac{23}{6}$$
 =

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

14

$$0.11 =$$

17

13

Solve for 
$$x$$

$$42 = 5x + 2$$

$$\frac{32}{5} =$$

$$\frac{1}{3} \bullet \frac{6}{7} =$$

70% of 70=

22 Write the answer in lowest terms

$$\frac{5}{3} \bullet \frac{7}{11} =$$

23 Solve for *x* 

$$21 = 2x + 9$$

25

$$13^3 =$$

26

27

28

$$1.32 \times 0.4$$

29

30 Convert to decimal

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

**31** Write the answer in lowest terms

$$\frac{2}{4} \div \frac{5}{6} =$$

32

Write the answer in lowest terms

$$11 \frac{5}{14} \\
+ 6 \frac{8}{14}$$

34

Write the answer in lowest terms

$$-2\frac{2}{3}$$

36 Solve for x

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

Write the answer in lowest terms

$$3\frac{4}{5} \bullet 2\frac{1}{3} =$$

38 Write the answer in lowest terms

$$\frac{5}{6} \div \frac{7}{9} =$$

**39** Write the answer in lowest terms

$$13 \frac{1}{10} + 5 \frac{17}{20}$$

$$7\frac{8}{13}$$

$$-4\frac{3}{13}$$

**Grade 8, Probe 11 Answer Key** 

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	9	1	0	21.	49	3	0
2.	36	1	0	22.	$1\frac{2}{33}$	2	0
3.	<b>-</b> 64	1	0	23.	6	2	0
4.	8	1	0	24.	27	3	0
5.	42	1	0	25.	2197	3	0
6.	15	1	0	26.	176	3	0
7.	<b>-</b> 50	2	0	27.	0.701	3	0
8.	20	1	0	28.	0.528	2	0
9.	19	1	0	29.	132	3	0
10.	22	1	0	30.	0.875	3	0
11.	$\frac{7}{10}$	1	0	31.	$\frac{3}{5}$	3	0
12.	<b>-</b> 25	1	0	32.	2.7	3	0
13.	0.3	1	0	33.	$17\frac{13}{14}$	2	0
14.	$\frac{11}{100}$	1	0	34.	0.6	3	0
15.	$3\frac{5}{6}$	2	0	35.	$3\frac{1}{6}$	3	0
16.	196	2	0	36.	45	2	0
17.	<b>-</b> 3	2	0	37.	$8\frac{13}{15}$	3	0
18.	8	1	0	38.	$1\frac{1}{14}$	3	0
19.	$6\frac{\frac{2}{5}}{\frac{2}{7}}$	2	0	39.	$18 \frac{19}{20} \\ 3 \frac{5}{13}$	3	0
20.	<del>2</del> <del>7</del>	2	0	40.	$3\frac{5}{13}$	2	0
	Subtotal	1			Subtotal 2		

mom. v	
TOTAL = Subtotal 1 + Subtotal 2	

$$9^2 =$$

$$25 + x = 32$$

$$4^3 =$$

**-**5 • **-**12 =

$$\bullet$$
 Solve for  $x$ 

$$6x = 90$$

$$-10 + 23 - 18 =$$

Solve for 
$$x$$

$$x \div 6 = 5$$

X =

Solve for 
$$x$$

$$2x = 26$$

Solve for 
$$x$$

$$x - 8 = 27$$

$$0.93 =$$

$$\frac{4}{5}$$
 =

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

$$18^{2} =$$

$$-6 - -12 - -20 =$$

Solve for 
$$x$$

$$29 = 5x + 4$$

$$\frac{28}{3}$$
 =

$$=$$
  $\frac{1}{3} \cdot \frac{4}{7}$ 

20

$$\frac{1}{3} \bullet \frac{4}{7} =$$

Write the answer

in lowest terms

55% of 20=

22 Write the answer in lowest terms

$$\frac{9}{5} \bullet \frac{9}{11} =$$

**23** Solve for *x* 

$$52 = 7x + 3$$

24

25

$$15^3 =$$

26

27

28

29

30 Convert to decimal

$$\frac{15}{24} =$$

**31** Write the answer in lowest terms

$$\frac{2}{6} \div \frac{6}{8} =$$

32

Write the answer in lowest terms

$$6\frac{1}{9} + 2\frac{1}{9}$$

34

Write the answer in lowest terms

$$-2\frac{1}{3}$$

36 Solve for x

$$\frac{X}{2} = 20$$

Write the answer

in lowest terms

Write the answer in lowest terms

$$4\frac{1}{5} \bullet 5\frac{2}{3} =$$

38 Write the answer in lowest terms

$$\frac{9}{10} \div \frac{6}{7} =$$

**39** Write the answer in lowest terms

$$6\frac{3}{4} + 1\frac{5}{16}$$

$$6\frac{4}{6}$$

40

$$-2\frac{3}{6}$$

Grade 8, Probe 12 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	81	1	0	21.	11	3	0
2.	7	1	0	22.	$1\frac{26}{55}$	2	0
3.	<b>-</b> 28	1	0	23.	7	2	0
4.	64	1	0	24.	27	3	0
5.	15	1	0	25.	3375	3	0
6.	60	1	0	26.	210	3	0
7.	<b>-</b> 5	2	0	27.	0.11022	3	0
8.	30	1	0	28.	0.246	2	0
9.	13	1	0	29.	304	3	0
10.	35	1	0	30.	0.625	3	0
11.	$\frac{93}{100}$	1	0	31.	$\frac{4}{9}$	3	0
12.	<b>-</b> 21	1	0	32.	1.4	3	0
13.	0.8	1	0	33.	8 2/9	2	0
14.	$\frac{19}{100}$	1	0	34.	0.3	3	0
15.	$10\frac{1}{2}$	2	0	35.	1 1/9	3	0
16.	324	2	0	36.	40	2	0
17.	26	2	0	37.	$23\frac{4}{5}$	3	0
18.	5	1	0	38.	$1\frac{1}{20}$	3	0
19.	$9\frac{1}{3}$	2	0	39.	$8\frac{1}{16}$	3	0
20.	4 21	2	0	40.	$4\frac{1}{6}$	2	0
	Subtot	al 1	1		Subtotal 2		

Subtotal 1	Subtotal 2	

$$2^2 =$$

$$37 + x = 42$$

**3** 

$$9^3 =$$

Solve for *x* 

$$6x = 84$$

6

*X* = \_\_\_\_\_

8 Solve for *x* 

$$x \div 3 = 11$$

4x = 64

9 Solve for x

 $\bigcirc$  Solve for x

Convert to fraction

$$0.53 =$$

12

$$^{-9} + ^{-6} + ^{-13} =$$

X =

Convert to

 $\frac{8}{10} =$ 

decimal

Convert to

0.31 =

fraction

x - 33 = 7

**1**5 Write fraction as mixed number

$$\frac{25}{2} =$$

16

$$18^{2} =$$

17

13

$$-20 - -7 - -4 =$$

18 Solve for *x* 

14

$$51 = 7x + 2$$

19 Write fraction as mixed number

$$\frac{19}{4} =$$

20

$$\frac{1}{3} \bullet \frac{5}{6} =$$

Write the answer

in lowest terms

22 Write the answer in lowest terms

$$\frac{6}{2} \bullet \frac{9}{11} =$$

23 Solve for 
$$x$$

$$28 = 6x + 4$$

 $12^3 =$ 

27

 $X = \underline{\hspace{1cm}}$ 

28

25

30 Convert to decimal

$$\frac{3}{24} =$$

**31** Write the answer in lowest terms

$$\frac{3}{9} \div \frac{8}{9} =$$

32

$$3\frac{2}{7}$$

$$+2\frac{4}{7}$$

34

Write the answer in lowest terms

$$-2\frac{4}{15}$$

36 Solve for x

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

$$3\frac{1}{3} \bullet 3\frac{1}{5} =$$

38 Write the answer in lowest terms

$$\frac{9}{10} \div \frac{5}{6} =$$

**39** Write the answer in lowest terms

$$2\frac{3}{4}$$

$$-1\frac{1}{5}$$

Grade 8, Probe 13 Answer Key

		Graue	o, rrobe	13 Allsv	vei Key		
Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	4	1	0	21.	18	3	0
2.	5	1	0	22.	$2\frac{5}{11}$	2	0
3.	<b>-</b> 16	1	0	23.	4	2	0
4.	729	1	0	24.	20	3	0
5.	14	1	0	25.	1728	3	0
6.	32	1	0	26.	165	3	0
7.	<b>-</b> 37	2	0	27.	0.15015	3	0
8.	33	1	0	28.	0.264	2	0
9.	16	1	0	29.	245	3	0
10.	40	1	0	30.	0.125	3	0
11.	<u>53</u> 100	1	0	31.	3/8	3	0
12.	<b>-</b> 28	1	0	32.	1.7	3	0
13.	0.8	1	0	33.	$5\frac{6}{7}$	2	0
14.	31 100	1	0	34.	0.6	3	0
15.	$12\frac{1}{2}$	2	0	35.	$1\frac{8}{15}$	3	0
16.	324	2	0	36.	45	2	0
17.	<b>-</b> 9	2	0	37.	$10\frac{2}{3}$	3	0
18.	7	1	0	38.	$1\frac{2}{25}$	3	0
19.	$4\frac{3}{4}$	2	0	39.	$1\frac{2}{25}$ $6\frac{3}{8}$	3	0
20.	<u>5</u> 18	2	0	40.	$3\frac{3}{5}$	2	0
Subtotal 1					Subtotal 2		1

Subtotal 1	Subtotal 2	

TOTAL = Subtotal 1 + Subtotal 2
TOTAL = Subtotal 1 + Subtotal 2

$$6^2 =$$

$$38 + x = 46$$

**3** 

$$2^{3} =$$

$$\bullet$$
 Solve for  $x$ 

$$3x = 66$$

6

14

Solve for 
$$x$$

$$x \div 8 = 6$$

$$X =$$

Solve for 
$$x$$

$$2x = 80$$

$$\bigcirc$$
 Solve for  $x$ 

$$x - 22 = 9$$

$$0.89 =$$

Convert to

 $\frac{9}{10} =$ 

decimal

Convert to

0.29 =

fraction

**1**5 Write fraction as

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

mixed number

16

$$20^{2} =$$

13

Solve for 
$$x$$

$$88 = 9x + 7$$

19 Write fraction as mixed number

$$\frac{13}{4} =$$

$$\frac{1}{3} \bullet \frac{6}{7}$$

20

$$\frac{1}{3} \bullet \frac{6}{7} =$$

Write the answer

in lowest terms

80% of 45=

22 Write the answer in lowest terms

$$\frac{9}{4} \bullet \frac{5}{11} =$$

23 Solve for *x* 

$$27 = 2x + 9$$

 $X = \underline{\hspace{1cm}}$ 

24

10% of 50=

25

 $18^{3} =$ 

26

140% of 110=

27

1.004  $\times$  0.11

28

1.25  $\times$  0.4

29

120% of 130=

30 Convert to decimal

$$\frac{3}{24} =$$

**31** Write the answer in lowest terms

$$\frac{4}{6} \div \frac{8}{9} =$$

32

0.2 0.22

Write the answer in lowest terms

$$1 \frac{2}{12} + 2 \frac{3}{12}$$

34

Write the answer in lowest terms

$$-3\frac{2}{3}$$

36 Solve for x

$$\frac{X}{2} = 12$$

Write the answer in lowest terms

$$1\frac{1}{2} \bullet 1\frac{2}{3} =$$

38 Write the answer in lowest terms

$$\frac{9}{10} \div \frac{6}{7} =$$

**39** Write the answer in lowest terms

$$4\frac{5}{6}$$

$$+2\frac{4}{12}$$

$$-1\frac{1}{8}$$

Grade 8, Probe 14 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	36	1	0	21.	36	3	0
2.	8	1	0	22.	$1\frac{1}{44}$	2	0
3.	<b>-</b> 20	1	0	23.	9	2	0
4.	8	1	0	24.	5	3	0
5.	22	1	0	25.	5832	3	0
6.	24	1	0	26.	154	3	0
7.	-1	2	0	27.	0.11044	3	0
8.	48	1	0	28.	0.5	2	0
9.	40	1	0	29.	156	3	0
10.	31	1	0	30.	0.125	3	0
11.	89 100	1	0	31.	3 4	3	0
12.	<del>-</del> 24	1	0	32.	1.1	3	0
13.	0.9	1	0	33.	$3\frac{5}{12}$	2	0
14.	29 100	1	0	34.	0.5	3	0
15.	$2\frac{2}{3}$	2	0	35.	1	3	0
16.	400	2	0	36.	24	2	0
17.	15	2	0	37.	$2\frac{1}{2}$	3	0
18.	9	1	0	38.	$1\frac{1}{20}$	3	0
19.	3 1/4	2	0	39.	$7\frac{1}{6}$ $3\frac{3}{8}$	3	0
20.	$\frac{2}{7}$	2	0	40.	$3\frac{3}{8}$	2	0
	Subtotal	1			Subtotal 2		1

'	
TOTAL = Subtotal 1 + Subtotal 2	

$$35 + x = 41$$

 $6^3 =$ 

Solve for x

$$6x = 78$$

Solve for 
$$x$$

$$x \div 8 = 2$$

9 Solve for x

$$2x = 68$$

Solve for 
$$x$$

$$x - 2 = 30$$

$$0.67 =$$

Convert to

 $\frac{7}{10} =$ 

decimal

Convert to

0.87 =

fraction

14

**1**5 Write fraction as mixed number

$$\frac{31}{5} =$$

16

20

$$10^2 =$$

17

13

$$-2 - -17 - -6 =$$

18 Solve for *x* 

$$56 = 9x + 2$$

19 Write fraction as mixed number

$$\frac{19}{2} =$$

$$\frac{3}{4} \bullet \frac{1}{4} =$$

Write the answer

in lowest terms

20% of 30=

22 Write the answer in lowest terms

$$\frac{4}{3} \bullet \frac{9}{11} =$$

**23** Solve for *x* 

$$13 = 2x + 9$$

 $X = \underline{\hspace{1cm}}$ 

24

75% of 36=

25

 $14^3 =$ 

26

145% of 140=

27

1.013  $\times$  0.11

28

1.03  $\times$  0.1

29

200% of 120=

30 Convert to decimal

$$\frac{15}{24} =$$

**31** Write the answer in lowest terms

$$\frac{6}{9} \div \frac{8}{9} =$$

32

0.2 0.12

Write the answer in lowest terms

$$3\frac{2}{7}$$

34

3.1 1.24

Write the answer in lowest terms

$$4\frac{5}{7}$$
 $3\frac{5}{14}$ 

$$-3\frac{5}{14}$$

36 Solve for x

$$\frac{x}{5} = 7$$

Write the answer in lowest terms

$$2\frac{4}{9} \bullet 3\frac{2}{7} =$$

38 Write the answer in lowest terms

$$\frac{9}{10} \div \frac{2}{7} =$$

**39** Write the answer in lowest terms

$$2\frac{2}{3} + 3\frac{5}{12}$$

$$4\frac{4}{5}$$

**Grade 8, Probe 15 Answer Key** 

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	1	1	0	21.	6	3	0
2.	6	1	0	22.	$1\frac{1}{11}$	2	0
3.	<b>-</b> 35	1	0	23.	2	2	0
4.	216	1	0	24.	27	3	0
5.	13	1	0	25.	2744	3	0
6.	36	1	0	26.	203	3	0
7.	-12	2	0	27.	0.11143	3	0
8.	16	1	0	28.	0.103	2	0
9.	34	1	0	29.	240	3	0
10.	32	1	0	30.	0.625	3	0
11.	67 100	1	0	31.	$\frac{3}{4}$	3	0
12.	<b>-</b> 19	1	0	32.	0.6	3	0
13.	0.7	1	0	33.	$6\frac{4}{7}$	2	0
14.	87 100	1	0	34.	0.4	3	0
15.	$6\frac{1}{5}$	2	0	35.	$1\frac{5}{14}$	3	0
16.	100	2	0	36.	35	2	0
17.	21	2	0	37.	$8\frac{2}{63}$	3	0
18.	6	1	0	38.	$3\frac{3}{20}$	3	0
19.	$9\frac{1}{2}$	2	0	39.	6	3	0
20.	3 16	2	0	40.	$3\frac{3}{5}$	2	0
	Subtota	11	]		Subtotal 2		

$$3^2 =$$

Solve for x

$$19 + x = 32$$

$$6^3 =$$

$$\bullet$$
 Solve for  $x$ 

$$4x = 80$$

6

14

Solve for 
$$x$$

$$x \div 7 = 6$$

$$X =$$

Solve for 
$$x$$

$$2x = 72$$

$$\bigcirc$$
 Solve for  $x$ 

$$x - 25 = 4$$

$$0.99 =$$

Convert to

 $\frac{2}{5}$  =

decimal

Convert to

0.51 =

fraction

**1**5 Write fraction as mixed number

$$\frac{9}{2} =$$

16

$$20^2 =$$

13

$$-19 - -14 - -3 =$$

18 Solve for *x* 

$$81 = 8x + 9$$

19 Write fraction as mixed number

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

$$\frac{4}{7} \bullet \frac{4}{7} =$$

10% of 70=

Write the answer in lowest terms

$$\frac{9}{5} \bullet \frac{7}{11} =$$

23 Solve for x

$$28 = 3x + 7$$

X = \_\_\_\_\_

24

40% of 60=

\_\_\_\_

25

$$11^{3} =$$

26

150% of 160=

27

28

29

200% of 140=

30 Convert to decimal

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

Write the answer in lowest terms

$$\frac{5}{6} \div \frac{1}{8} =$$

32

Write the answer in lowest terms

$$4\frac{3}{13} + 1\frac{2}{13}$$

34

Write the answer in lowest terms

$$2\frac{4}{5}$$
 $1\frac{4}{15}$ 

36 Solve for x

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

Write the answer in lowest terms

$$2\frac{2}{3} \cdot 1\frac{1}{6} =$$

Write the answer in lowest terms

$$\frac{8}{9} \div \frac{6}{9} =$$

Write the answer in lowest terms

$$17\frac{5}{6} + 3\frac{5}{12}$$

$$3\frac{5}{6}$$
 $-2\frac{4}{6}$ 

**Grade 8, Probe 16 Answer Key** 

Grade 8, Frobe 10 Aliswer Key									
Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect		
1.	9	1	0	21.	7	3	0		
2.	13	1	0	22.	$1\frac{8}{55}$	2	0		
3.	<b>-</b> 36	1	0	23.	7	2	0		
4.	216	1	0	24.	24	3	0		
5.	20	1	0	25.	1331	3	0		
6.	36	1	0	26.	240	3	0		
7.	<b>-</b> 52	2	0	27.	0.13039	3	0		
8.	42	1	0	28.	0.204	2	0		
9.	36	1	0	29.	280	3	0		
10.	29	1	0	30.	0.375	3	0		
11.	99	1	0	31.	$6\frac{2}{3}$	3	0		
12.	<b>-</b> 28	1	0	32.	1.3	3	0		
13.	0.4	1	0	33.	5 <del>5</del> 13	2	0		
14.	<u>51</u> 100	1	0	34.	0.5	3	0		
15.	$4\frac{1}{2}$	2	0	35.	$1\frac{8}{15}$	3	0		
16.	400	2	0	36.	26	2	0		
17.	<del>-</del> 2	2	0	37.	$3\frac{1}{9}$	3	0		
18.	9	1	0	38.	$1\frac{1}{3}$	3	0		
19.	4 1/3	2	0	39.	21 1/4	3	0		
20.	16 49	2	0	40.	$1\frac{1}{6}$	2	0		
	Subtota	11	]		Subtotal 2				

otal 1			Subtotal 2	

TOTAL = Subtotal 1 + Subtotal 2	
---------------------------------	--

$$9^2 =$$

$$8 + x = 32$$

**3** 

$$5^3 =$$

$$\bullet$$
 Solve for  $x$ 

$$6x = 72$$

6

$$-25 + -12 - 6 =$$

8 Solve for 
$$x$$

$$x \div 7 = 2$$

$$X =$$

Solve for 
$$x$$

$$2x = 28$$

Solve for 
$$x$$

$$x - 31 = 3$$

$$0.61 =$$

$$^{-}11 + ^{-}15 + ^{-}5 =$$

Convert to

 $\frac{5}{10} =$ 

decimal

**1**5 Write fraction as mixed number

$$\frac{29}{3} =$$

16

$$17^2 =$$

13

$$-5 - -10 - -11 =$$

18 Solve for *x* 

$$29 = 9x + 2$$

19 Write fraction as mixed number

$$\frac{22}{5} =$$

20

$$\frac{2}{5} \bullet \frac{1}{10} =$$

85% of 40=

22 Write the answer in lowest terms

$$\frac{6}{2} \bullet \frac{8}{11} =$$

23 Solve for *x* 

$$56 = 6x + 8$$

24

28 27 25 26

$$15^{3} =$$

150% of 130=

1.021  $\times$  0.14

1.05  $\times$  0.5

29

165% of 120=

30 Convert to decimal

$$\frac{2}{16} =$$

**31** Write the answer in lowest terms

$$\frac{4}{6} \div \frac{5}{6} =$$

32

0.2 0.52

Write the answer in lowest terms

34

Write the answer in lowest terms

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

$$-2\frac{1}{15}$$

36 Solve for x

$$\frac{x}{3} = 7$$

Write the answer in lowest terms

$$2\frac{1}{3} \cdot 2\frac{1}{3} =$$

38 Write the answer in lowest terms

$$\frac{8}{9} \div \frac{5}{6} =$$

**39** Write the answer in lowest terms

$$17\frac{1}{2} + 3\frac{3}{4}$$

40

$$7\frac{5}{10}$$

$$-2\frac{4}{10}$$

**Grade 8, Probe 17 Answer Key** 

	Grade 8, Frode 17 Allswer Key								
Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect		
1.	81	1	0	21.	34	3	0		
2.	24	1	0	22.	$2\frac{2}{11}$	2	0		
3.	<b>-</b> 30	1	0	23.	8	2	0		
4.	125	1	0	24.	9	3	0		
5.	12	1	0	25.	3375	3	0		
6.	65	1	0	26.	195	3	0		
7.	<b>-</b> 43	2	0	27.	0.14294	3	0		
8.	14	1	0	28.	0.525	2	0		
9.	14	1	0	29.	198	3	0		
10.	34	1	0	30.	0.125	3	0		
11.	$\frac{61}{100}$	1	0	31.	4 5	3	0		
12.	<b>-</b> 31	1	0	32.	2.6	3	0		
13.	0.5	1	0	33.	11 <del>5</del> 9	2	0		
14.	<u>57</u> 100	1	0	34.	0.5	3	0		
15.	$9\frac{2}{3}$	2	0	35.	$1\frac{8}{15}$	3	0		
16.	289	2	0	36.	21	2	0		
17.	16	2	0	37.	$5\frac{4}{9}$	3	0		
18.	3	1	0	38.	$1\frac{1}{15}$	3	0		
19.	$4\frac{2}{5}$	2	0	39.	$21\frac{1}{4}$	3	0		
20.	1 25	2	0	40.	$5\frac{1}{10}$	2	0		
	Subtotal 1	1			Subtotal 2				

TOTAL = Subtotal 1 + Subtotal 2	
TOTAL - Subtotal I   Subtotal 2	

$$5^2 =$$

$$25 + x = 60$$

$$3^{3} =$$

$$\bigcirc$$
 Solve for  $x$ 

$$4x = 40$$

6

14

Solve for 
$$x$$

$$x \div 5 = 4$$

Solve for 
$$x$$

$$2x = 36$$

$$\bigcirc$$
 Solve for  $x$ 

$$x - 10 = 11$$

$$0.1 =$$

Convert to

 $\frac{6}{10} =$ 

decimal

Convert to

0.13 =

fraction

**1**5 Write fraction as mixed number

$$\frac{31}{5} =$$

$$12^2 =$$

13

$$-12 - -11 - -3 =$$

Solve for 
$$x$$

$$33 = 6x + 3$$

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

$$\frac{1}{4} \bullet \frac{3}{10} =$$

50% of 60=

Write the answer in lowest terms

$$\frac{7}{2} \bullet \frac{5}{11} =$$

23 Solve for x

$$14 = 2x + 8$$

X = \_\_\_\_\_

24

35% of 100=

25

 $12^3 =$ 

26

130% of 110=

27

1.303 × 0.43 28

1.23 × 0.3

29

120% of 180=

30 Convert to decimal

$$\frac{21}{24} =$$

Write the answer in lowest terms

$$\frac{3}{5} \div \frac{4}{5} =$$

32

0.3 0.12

Write the answer in lowest terms

$$10 \ \frac{5}{12} + 5 \ \frac{2}{12}$$

34

Write the answer in lowest terms

$$6\frac{1}{8}$$
  $5\frac{3}{4}$ 

$$-5\frac{3}{4}$$

36 Solve for x

$$\frac{x}{5} = 8$$

Write the answer in lowest terms

$$2\frac{2}{3} \cdot 1\frac{1}{6} =$$

Write the answer in lowest terms

$$\frac{4}{5} \div \frac{6}{8} =$$

Write the answer in lowest terms

$$12\frac{1}{5} + 6\frac{7}{10}$$

$$5 \frac{5}{11} - 2 \frac{2}{11}$$

Grade 8, Probe 18 Answer Key

Grade o, Frobe to Aliswer Key								
Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect	
1.	25	1	0	21.	30	3	0	
2.	35	1	0	22.	$1\frac{13}{22}$	2	0	
3.	<b>-</b> 20	1	0	23.	3	2	0	
4.	27	1	0	24.	35	3	0	
5.	10	1	0	25.	1728	3	0	
6.	12	1	0	26.	143	3	0	
7.	<del>-</del> 75	2	0	27.	0.56029	3	0	
8.	20	1	0	28.	0.369	2	0	
9.	18	1	0	29.	216	3	0	
10.	21	1	0	30.	0.875	3	0	
11.	1 10	1	0	31.	3 4	3	0	
12.	<del>-</del> 24	1	0	32.	0.4	3	0	
13.	0.6	1	0	33.	$15\frac{7}{12}$	2	0	
14.	$\frac{13}{100}$	1	0	34.	1.1	3	0	
15.	$6\frac{1}{5}$	2	0	35.	3 8	3	0	
16.	144	2	0	36.	40	2	0	
17.	2	2	0	37.	$3\frac{1}{9}$	3	0	
18.	5	1	0	38.	$1\frac{1}{15}$	3	0	
19.	$6\frac{1}{4}$	2	0	39.	18 9/10	3	0	
20.	<u>3</u> 40	2	0	40.	$3\frac{3}{11}$	2	0	
	Subtotal	1	]		Subtotal 2			

	Subtotal 2	

TOTAL = Subtotal	1	+	Subtotal	2
------------------	---	---	----------	---

$$7^2 =$$

$$39 + x = 51$$

$$2^{3} =$$

**-**13 • **-**9 =

$$\bullet$$
 Solve for  $x$ 

$$2x = 70$$

Solve for 
$$x$$

$$x \div 3 = 13$$

$$X =$$

9 Solve for x

$$4x = 84$$

$$\bigcirc$$
 Solve for  $x$ 

$$x - 27 = 3$$

$$0.49 =$$

$$^{-}6 + ^{-}12 + ^{-}7 =$$

Convert to

 $\frac{1}{5} =$ 

decimal

Convert to

0.69 =

fraction

14

**1**5 Write fraction as mixed number

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

16

20

$$18^{2} =$$

17

13

18 Solve for *x* 

$$22 = 4x + 2$$

19 Write fraction as mixed number

$$\frac{18}{4} =$$

$$\frac{2}{3} \cdot \frac{4}{7} =$$

Write the answer

in lowest terms

80% of 75=

22 Write the answer in lowest terms

$$\frac{9}{4} \bullet \frac{9}{11} =$$

23 Solve for *x* 

$$21 = 6x + 3$$

 $X = \underline{\hspace{1cm}}$ 

24

10% of 30=

25

 $14^3 =$ 

26

125% of 164=

27

1.012  $\times$  0.12

28

1.04  $\times$  0.2

29

190% of 150=

30 Convert to decimal

$$\frac{21}{24} =$$

**31** Write the answer in lowest terms

$$\frac{6}{9} \div \frac{8}{9} =$$

32

0.2 0.52

Write the answer in lowest terms

$$2\frac{1}{5}$$
 +  $2\frac{3}{5}$ 

34

Write the answer in lowest terms

$$5\frac{1}{2}$$
 $4\frac{1}{4}$ 

36 Solve for x

$$\frac{X}{4} = 5$$

Write the answer in lowest terms

$$5\frac{1}{2} \cdot 4\frac{2}{3} =$$

38 Write the answer in lowest terms

$$\frac{6}{8} \div \frac{4}{7} =$$

**39** Write the answer in lowest terms

$$\begin{array}{r}
 3 \overline{\smash{\big)}\,6} \\
 + 1 \overline{\smash{\big)}\,5} \\
 \hline
 12
 \end{array}$$

$$7\frac{5}{10}$$
 $-2\frac{4}{10}$ 

**Grade 8, Probe 19 Answer Key** 

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	49	1	0	21.	60	3	0
2.	12	1	0	22.	$1\frac{37}{44}$	2	0
3.	<b>-</b> 64	1	0	23.	3	2	0
4.	8	1	0	24.	3	3	0
5.	35	1	0	25.	2744	3	0
6.	117	1	0	26.	205	3	0
7.	<b>-</b> 11	2	0	27.	0.12144	3	0
8.	39	1	0	28.	0.208	2	0
9.	21	1	0	29.	285	3	0
10.	30	1	0	30.	0.875	3	0
11.	49 100	1	0	31.	3 4	3	0
12.	<b>-</b> 25	1	0	32.	2.6	3	0
13.	0.2	1	0	33.	4 4/5	2	0
14.	<u>69</u> 100	1	0	34.	1.8	3	0
15.	$8\frac{1}{3}$	2	0	35.	$1\frac{1}{4}$	3	0
16.	324	2	0	36.	20	2	0
17.	17	2	0	37.	$25\frac{2}{3}$	3	0
18.	5	1	0	38.	$25 \frac{2}{3} \\ 1 \frac{5}{16}$	3	0
19.	$4\frac{1}{2}$	2	0	39.	$5\frac{1}{4}$	3	0
20.	$\frac{8}{21}$	2	0	40.	$5\frac{1}{10}$	2	0
	Subtotal	1			Subtotal 2		

Subtotal 1				Subt	otal 2	
						7

TOTAL = Subtotal 1 + Subtotal 2

$$31 + x = 80$$

$$4^3 =$$

Solve for 
$$x$$

$$2x = 40$$

6

14

$$-20 - 20 + 8 =$$

Solve for 
$$x$$

$$x \div 3 = 6$$

9 Solve for x

$$3x = 24$$

$$\bigcirc$$
 Solve for  $x$ 

$$x - 11 = 15$$

$$0.17 =$$

Convert to

 $\frac{4}{10} =$ 

decimal

Convert to

0.23 =

fraction

**1**5 Write fraction as mixed number

$$\frac{23}{4} =$$

16

$$15^2 =$$

17

13

$$-18 - -13 - -5 =$$

18 Solve for *x* 

$$24 = 5x + 4$$

$$X =$$

19 Write fraction as mixed number

$$\frac{19}{3} =$$

Write the answer in lowest terms

$$\frac{1}{4} \bullet \frac{3}{10} =$$

*X* = \_\_\_\_\_

10% of 50=

22 Write the answer in lowest terms

$$\frac{8}{3} \cdot \frac{9}{11} =$$

$$17 = 4x + 5$$

Solve for *x* 

24

 $10^3 =$ 

26

27

23

 $X = \underline{\hspace{1cm}}$ 

28

$$1.50 \times 0.2$$

29

25

110% of 120=

30 Convert to decimal

$$\frac{10}{16} =$$

**31** Write the answer in lowest terms

$$\frac{1}{2} \div \frac{4}{7} =$$

32

Write the answer in lowest terms

$$12 \frac{4}{11} + 8 \frac{6}{11}$$

34

Write the answer in lowest terms

$$-7\frac{3}{8}$$

36 Solve for x

$$\frac{x}{7} = 7$$

Write the answer in lowest terms

$$4\frac{1}{5} \bullet 5\frac{2}{3} =$$

38 Write the answer in lowest terms

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

**39** Write the answer in lowest terms

$$11\frac{1}{8} + 7\frac{3}{4}$$

$$-3\frac{6}{12}$$

**Grade 8, Probe 20 Answer Key** 

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	16	1	0	21.	5	3	0
2.	49	1	0	22.	$2\frac{2}{11}$	2	0
3.	<b>-</b> 42	1	0	23.	3	2	0
4.	64	1	0	24.	40	3	0
5.	20	1	0	25.	1000	3	0
6.	28	1	0	26.	195	3	0
7.	<b>-</b> 32	2	0	27.	0.38496	3	0
8.	18	1	0	28.	0.3	2	0
9.	8	1	0	29.	132	3	0
10.	26	1	0	30.	0.625	3	0
11.	17 100	1	0	31.	$\frac{7}{8}$	3	0
12.	<b>-</b> 19	1	0	32.	0.8	3	0
13.	0.4	1	0	33.	$20\frac{10}{11}$	2	0
14.	23 100	1	0	34.	0.5	3	0
15.	$5\frac{3}{4}$	2	0	35.	$1\frac{1}{8}$	3	0
16.	225	2	0	36.	49	2	0
17.	0	2	0	37.	$23\frac{4}{5}$	3	0
18.	4	1	0	38.	$1\frac{1}{15}$	3	0
19.	$6\frac{1}{3}$	2	0	39.	$18\frac{7}{8}$	3	0
20.	3 40	2	0	40.	$1\frac{1}{12}$	2	0
	Subtotal	1	]		Subtotal 2		

<b>TOTAL</b> = Subtotal 1 + Subtotal 2	

$$6^2 =$$

Solve for x

$$7 + x = 31$$

$$2^{3} =$$

Solve for *x* 

$$3x = 99$$

6

$$-15 - 4 + 1 =$$

Solve for 
$$x$$

$$x \div 2 = 23$$

9 Solve for x

$$7x = 140$$

$$\bigcirc$$
 Solve for  $x$ 

$$x - 39 = 8$$

$$0.61 =$$

Convert to

 $\frac{3}{5} =$ 

decimal

Convert to

fraction

14

**1**5 Write fraction as mixed number

$$\frac{10}{4} =$$

16

$$14^{2} =$$

17

13

$$-5 - -11 - -13 =$$

18 Solve for *x* 

$$74 = 9x + 2$$

19 Write fraction as mixed number

$$\frac{5}{2} =$$

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

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

85% of 60=

22 Write the answer in lowest terms

$$\frac{7}{2} \bullet \frac{8}{11} =$$

23 Solve for *x* 

$$33 = 5x + 8$$

24

25

$$16^3 =$$

26

27

28

$$1.01 \times 0.2$$

29

30 Convert to decimal

$$\frac{21}{24} =$$

**31** Write the answer in lowest terms

$$\frac{3}{6} \div \frac{9}{10} =$$

32

Write the answer in lowest terms

$$4\frac{1}{9} + 5\frac{4}{9}$$

34

Write the answer in lowest terms

$$3\frac{5}{7}$$
 $2\frac{5}{14}$ 

36 Solve for x

$$\frac{X}{3} = 16$$

Write the answer in lowest terms

$$2\frac{1}{2} \bullet 2\frac{1}{4} =$$

38 Write the answer in lowest terms

$$\frac{8}{9} \div \frac{4}{9} =$$

**39** Write the answer in lowest terms

$$9\frac{3}{4} + 6\frac{5}{13}$$

$$4\frac{5}{8}$$
 $-3\frac{2}{8}$ 

$$-3\frac{2}{8}$$

Grade 8, Probe 21 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	36	1	0	21.	51	3	0
2.	24	1	0	22.	$2\frac{6}{11}$	2	0
3.	<b>-</b> 50	1	0	23.	5	2	0
4.	8	1	0	24.	5	3	0
5.	33	1	0	25.	4096	3	0
6.	40	1	0	26.	240	3	0
7.	-18	2	0	27.	0.13273	3	0
8.	46	1	0	28.	0.202	2	0
9.	20	1	0	29.	189	3	0
10.	47	1	0	30.	0.875	3	0
11.	61 100	1	0	31.	5 9	3	0
12.	<del>-</del> 29	1	0	32.	1.6	3	0
13.	0.6	1	0	33.	$9\frac{5}{9}$	2	0
14.	$\frac{71}{100}$	1	0	34.	1.6	3	0
15.	$2\frac{1}{2}$	2	0	35.	$1\frac{5}{14}$	3	0
16.	196	2	0	36.	48	2	0
17.	19	2	0	37.	$5\frac{5}{8}$	3	0
18.	8	1	0	38.	2	3	0
19.	$2\frac{1}{2}$ $\frac{4}{25}$	2	0	39.	$16\frac{1}{6}$	3	0
20.	$\frac{4}{25}$	2	0	40.	$1\frac{3}{8}$	2	0
Subtotal 1					Subtotal 2		

TOTAL = Subtotal 1 + Subtotal 2	

$$14 + x = 31$$

$$4^3 =$$

Solve for 
$$x$$

$$4x = 56$$

6

$$x \div 5 = 6$$

Solve for 
$$x$$

$$2x = 94$$

Solve for 
$$x$$

$$x - 32 = 5$$

$$0.39 =$$

Convert to

 $\frac{9}{10} =$ 

decimal

Convert to

0.7 =

fraction

## **1**5 Write fraction as mixed number

$$\frac{11}{4}$$

$$16^2 =$$

13

$$-3 - -15 - -2 =$$

Solve for 
$$x$$

14

$$6 = 2x + 2$$

$$\frac{7}{6}$$
 =

$$\frac{1}{4} \bullet \frac{3}{10} =$$

35% of 40=

22 Write the answer in lowest terms

$$\frac{7}{2} \bullet \frac{6}{11} =$$

**23** Solve for *x* 

$$90 = 9x + 9$$

 $X = \underline{\hspace{1cm}}$ 

24

40% of 55=

25

 $15^{3} =$ 

26

125% of 144=

27

1.022  $\times$  0.14

28

1.24  $\times$  0.1

29

110% of 160=

30 Convert to decimal

$$\frac{5}{8} =$$

**31** Write the answer in lowest terms

$$\frac{4}{5} \div \frac{8}{9} =$$

32

0.3 0.21

Write the answer in lowest terms

$$3\frac{5}{13} + 2\frac{2}{13}$$

34

Write the answer in lowest terms

$$6\frac{3}{5}$$
 $5\frac{1}{15}$ 

$$-5\frac{1}{15}$$

36 Solve for x

$$\frac{X}{2} = 24$$

Write the answer in lowest terms

$$5\frac{1}{2} \cdot 4\frac{2}{3} =$$

38 Write the answer in lowest terms

$$\frac{7}{9} \div \frac{3}{7} =$$

**39** Write the answer in lowest terms

$$2\frac{5}{7}$$
 +  $3\frac{5}{14}$ 

$$6\frac{3}{6}$$

**Grade 8, Probe 22 Answer Key** 

Grade 8, Probe 22 Answer Key							
Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	25	1	0	21.	14	3	0
2.	17	1	0	22.	$1\frac{10}{11}$	2	0
3.	<b>-</b> 52	1	0	23.	9	2	0
4.	64	1	0	24.	22	3	0
5.	14	1	0	25.	3375	3	0
6.	15	1	0	26.	180	3	0
7.	<b>-</b> 3	2	0	27.	0.14308	3	0
8.	30	1	0	28.	0.124	2	0
9.	47	1	0	29.	176	3	0
10.	37	1	0	30.	0.625	3	0
11.	39 100	1	0	31.	9 10	3	0
12.	<del>-</del> 26	1	0	32.	0.7	3	0
13.	0.9	1	0	33.	$5\frac{7}{13}$	2	0
14.	$\frac{7}{10}$	1	0	34.	1.1	3	0
15.	$2\frac{3}{4}$	2	0	35.	$1\frac{8}{15}$	3	0
16.	256	2	0	36.	48	2	0
17.	14	2	0	37.	$25\frac{2}{3}$	3	0
18.	2	1	0	38.	$1\frac{22}{27}$	3	0
19.	$1\frac{1}{6}$ $\frac{3}{40}$	2	0	39.	$6\frac{1}{14}$	3	0
20.	<del>3</del> <del>40</del>	2	0	40.	$3\frac{1}{6}$	2	0
	Subtota	al 1	1		Subtotal 2		1

TOTAL = Subtotal 1 + Subtotal 2

$$5^2 =$$

$$28 + x = 37$$

**3** 

$$7^3 =$$

$$\bullet$$
 Solve for  $x$ 

$$3x = 42$$

6

14

$$x \div 6 = 3$$

$$X =$$

9 Solve for x

$$5x = 95$$

Solve for 
$$x$$

$$x - 7 = 33$$

$$0.37 =$$

Convert to

 $\frac{3}{10} =$ 

decimal

Convert to

0.21 =

fraction

**1**5 Write fraction as mixed number

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

16

$$13^2 =$$

17

13

$$-6 - -9 - -12 =$$

18 Solve for *x* 

$$66 = 8x + 2$$

19 Write fraction as mixed number

$$\frac{21}{6} =$$

$$\frac{3}{4} \cdot \frac{5}{9} =$$

55% of 20=

Write the answer in lowest terms

$$\frac{9}{7} \bullet \frac{9}{11} =$$

23 Solve for x

$$30 = 9x + 3$$

X = \_\_\_\_\_

24

25% of 60=

\_\_\_\_

25

$$15^3 =$$

26

27

28

29

30 Convert to decimal

$$\frac{2}{16} =$$

Write the answer in lowest terms

$$\frac{2}{3} \div \frac{6}{8} =$$

32

Write the answer in lowest terms

$$1\frac{1}{13} + 2\frac{4}{13}$$

34

Write the answer in lowest terms

$$6\frac{5}{8}$$
 $5\frac{3}{16}$ 

36 Solve for x

$$\frac{x}{2} = 8$$

Write the answer in lowest terms

$$2\frac{1}{3} \cdot 2\frac{1}{3} =$$

Write the answer in lowest terms

$$\frac{9}{10} \div \frac{6}{7} =$$

Write the answer in lowest terms

$$6\frac{5}{8}$$
 + 2 $\frac{5}{16}$ 

Grade 8, Probe 23 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	25	1	0	21.	11	3	0
2.	9	1	0	22.	$1\frac{4}{77}$	2	0
3.	-80	1	0	23.	3	2	0
4.	343	1	0	24.	15	3	0
5.	14	1	0	25.	3375	3	0
6.	34	1	0	26.	150	3	0
7.	22	2	0	27.	0.14042	3	0
8.	18	1	0	28.	0.25	2	0
9.	19	1	0	29.	224	3	0
10.	40	1	0	30.	0.125	3	0
11.	37 100	1	0	31.	8 9	3	0
12.	<del>-</del> 21	1	0	32.	1.2	3	0
13.	0.3	1	0	33.	$3\frac{5}{13}$	2	0
14.	$\frac{21}{100}$	1	0	34.	1.1	3	0
15.	$4\frac{4}{5}$	2	0	35.	$1\frac{7}{16}$	3	0
16.	169	2	0	36.	16	2	0
17.	15	2	0	37.	$5\frac{4}{9}$	3	0
18.	8	1	0	38.	$1\frac{1}{20}$	3	0
19.	$3\frac{1}{2}$	2	0	39.	$8\frac{15}{16}$	3	0
20.	<u>5</u> 12	2	0	40.	$2\frac{1}{4}$	2	0
	Subtotal 1				Subtotal 2		

TOTAL CALLES	
TOTAL = Subtotal 1 + Subtotal 2	

$$5^2 =$$

Solve for x

$$26 + x = 34$$

**-8** • 4 =

 $7^3 =$ 

 $\bullet$  Solve for x

$$8x = 96$$

Solve for 
$$x$$

$$x \div 4 = 6$$

X =

2x = 52

9 Solve for x

 $\bigcirc$  Solve for x

$$0.79 =$$

Convert to

 $\frac{1}{2} =$ 

decimal

Convert to

0.49 =

fraction

x - 9 = 22

Write fraction as mixed number

$$\frac{22}{4} =$$

16

20

$$19^{2} =$$

17

13

$$-8 - -6 - -13 =$$

Solve for x

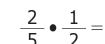
14

$$15 = 2x + 5$$

Write fraction as mixed number

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

<del>-</del> =



Write the answer

in lowest terms

30% of 10=

22 Write the answer in lowest terms

$$\frac{9}{3} \cdot \frac{6}{11} =$$

**23** 

$$8 = 3x + 2$$

Solve for *x* 

 $14^3 =$ 

175% of 120=

27

1.012  $\times$  0.15

 $X = \underline{\hspace{1cm}}$ 

28

$$1.22 \times 0.3$$

25

200% of 130=

30 Convert to decimal

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

**31** Write the answer in lowest terms

$$\frac{4}{6} \div \frac{5}{6} =$$

32

$$3\frac{2}{7} + 3\frac{2}{3}$$

34

Write the answer in lowest terms

$$2\frac{5}{7}$$
 $1\frac{5}{14}$ 

$$-1\frac{5}{14}$$

36 Solve for x

$$\frac{x}{2} = 5$$

$$2\frac{2}{3} \cdot 1\frac{1}{6} =$$

38 Write the answer in lowest terms

$$\frac{8}{9} \div \frac{7}{8} =$$

**39** Write the answer in lowest terms

$$4\frac{5}{7}$$
 + 2 $\frac{5}{14}$ 

$$-3\frac{2}{7}$$

Grade 8, Probe 24 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	25	1	0	21.	3	3	0
2.	8	1	0	22.	$1\frac{7}{11}$	2	0
3.	<b>-</b> 32	1	0	23.	2	2	0
4.	343	1	0	24.	28	3	0
5.	12	1	0	25.	2744	3	0
6.	42	1	0	26.	210	3	0
7.	7	2	0	27.	0.1518	3	0
8.	24	1	0	28.	0.366	2	0
9.	26	1	0	29.	260	3	0
10.	31	1	0	30.	0.875	3	0
11.	79 100	1	0	31.	4 5	3	0
12.	<b>-</b> 17	1	0	32.	0.7	3	0
13.	0.5	1	0	33.	$6\frac{4}{7}$	2	0
14.	49 100	1	0	34.	0.7	3	0
15.	$5\frac{1}{2}$	2	0	35.	$1\frac{5}{14}$	3	0
16.	361	2	0	36.	10	2	0
17.	11	2	0	37.	$3\frac{1}{9}$	3	0
18.	5	1	0	38.	$1\frac{1}{63}$	3	0
19.	4 3/5	2	0	39.	$7\frac{1}{14}$	3	0
20.	1/5	2	0	40.	$1\frac{3}{7}$	2	0
Subtotal 1					Subtotal 2		

TOTAL = Subtotal 1 + Subtotal 2	

$$8^2 =$$

Solve for x

$$29 + x = 50$$

3

4

$$3^3 =$$

\_\_\_\_

 $\bullet$  Solve for x

$$3x = 75$$

6

14

7

$$-30 + 26 - 11 =$$

Solve for x

$$x \div 3 = 12$$

\_\_\_\_

Solve for x

$$6x = 96$$

 $\bigcirc$  Solve for x

$$x - 5 = 40$$

Convert to fraction

$$0.83 =$$

12

Convert to

 $\frac{2}{10} =$ 

decimal

Convert to

0.29 =

fraction

15 Write fraction as

$$\frac{5}{4} =$$

mixed number

16

$$12^2 =$$

17

13

$$-14 - -3 - -15 =$$

 $\bigcirc$  Solve for x

$$30 = 7x + 2$$

Write fraction as mixed number

$$\frac{16}{6} =$$

4 •

20

$$\frac{4}{7} \bullet \frac{3}{10} =$$

Write the answer

in lowest terms

25% of 60=

22 Write the answer in lowest terms

$$\frac{9}{4} \bullet \frac{7}{11} =$$

**23** Solve for *x* 

$$48 = 5x + 8$$

 $X = \underline{\hspace{1cm}}$ 

24

85% of 20=

25

$$13^3 =$$

26

105% of 140=

27

28

$$1.25 \times 0.5$$

29

30 Convert to decimal

$$\frac{6}{16} =$$

**31** Write the answer in lowest terms

$$\frac{1}{5} \div \frac{8}{9} =$$

32

Write the answer in lowest terms

$$1 \frac{5}{12} + 2 \frac{2}{12}$$

34

Write the answer in lowest terms

$$-4\frac{1}{2}$$

36 Solve for x

$$\frac{X}{6} = 2$$

Write the answer in lowest terms

$$2\frac{1}{2} \cdot 2\frac{2}{3} =$$

38 Write the answer in lowest terms

$$\frac{7}{9} \div \frac{6}{9} =$$

**39** Write the answer in lowest terms

$$6\frac{5}{6} + 3\frac{4}{13}$$

$$-1\frac{1}{5}$$

Grade 8, Probe 25 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	64	1	0	21.	15	3	0
2.	21	1	0	22.	$1\frac{19}{44}$	2	0
3.	<b>-</b> 24	1	0	23.	8	2	0
4.	27	1	0	24.	17	3	0
5.	25	1	0	25.	2197	3	0
6.	80	1	0	26.	147	3	0
7.	<b>-</b> 15	2	0	27.	0.1218	3	0
8.	36	1	0	28.	0.625	2	0
9.	16	1	0	29.	225	3	0
10.	45	1	0	30.	0.375	3	0
11.	83 100	1	0	31.	9 40	3	0
12.	<b>-</b> 25	1	0	32.	1.1	3	0
13.	0.2	1	0	33.	$3\frac{7}{12}$	2	0
14.	29 100	1	0	34.	1.7	3	0
15.	$1\frac{1}{4}$	2	0	35.	$1\frac{1}{4}$	3	0
16.	144	2	0	36.	12	2	0
17.	4	2	0	37.	$6\frac{2}{3}$	3	0
18.	4	1	0	38.	$1\frac{1}{6}$	3	0
19.	$2\frac{2}{3}$ $\frac{6}{35}$	2	0	39.	$10\frac{1}{18}$	3	0
20.	$\frac{6}{35}$	2	0	40.	$3\frac{3}{5}$	2	0
Subtotal 1					Subtotal 2		1

_	
TOTAL = Subtotal 1 + Subtotal 2	

$$3^2 =$$

$$36 + x = 44$$

**-**13 • 2 =

 $4^3 =$ 

$$\bullet$$
 Solve for  $x$ 

$$3x = 93$$

6

Solve for 
$$x$$

$$x \div 4 = 9$$

Solve for 
$$x$$

$$2x = 50$$

Solve for 
$$x$$

$$x - 48 = 1$$

$$0.13 =$$

Convert to

decimal

Convert to

fraction

**1**5 Write fraction as

$$\frac{25}{6} =$$

mixed number

16

$$\frac{2}{4} =$$

13

17

14

18

$$0.99 =$$

19 Write fraction as mixed number

$$\frac{11}{5} =$$

20

Write the answer in lowest terms

$$\frac{2}{3} \cdot \frac{4}{5} =$$

AIMSweb® Math Computation

1 2 3 4 5 6 7 8 9 10 11 12 A B C D E

-20 - -5 - -10 =

$$55 = 7x + 6$$

Solve for *x* 

$$\frac{11}{5} =$$

$$\frac{2}{3} \cdot \frac{4}{5} =$$

60% of 80=

22 Write the answer in lowest terms

$$\frac{9}{2} \bullet \frac{7}{11} =$$

**23** Solve for *x* 

$$19 = 4x + 3$$

 $X = \underline{\hspace{1cm}}$ 

24

80% of 75=

25

 $16^3 =$ 

26

170% of 110=

27

1.015  $\times$  0.13

28

1.25  $\times$  0.1

29

160% of 130=

30 Convert to decimal

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

**31** Write the answer in lowest terms

$$\frac{1}{8} \div \frac{8}{9} =$$

32

0.3 0.42

Write the answer in lowest terms

$$6\frac{1}{9} + 2\frac{1}{9}$$

34

Write the answer in lowest terms

$$4\frac{5}{7}$$
 $3\frac{5}{14}$ 

36 Solve for x

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

Write the answer in lowest terms

$$4\frac{1}{2} \bullet 4\frac{1}{4} =$$

38 Write the answer in lowest terms

$$\frac{2}{3} \div \frac{1}{2} =$$

**39** Write the answer in lowest terms

$$5\frac{2}{3}$$

$$6\frac{3}{6}$$

$$-3\frac{2}{6}$$

Grade 8, Probe 26 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	9	1	0	21.	48	3	0
2.	8	1	0	22.	$2\frac{19}{22}$	2	0
3.	<b>-</b> 26	1	0	23.	4	2	0
4.	64	1	0	24.	60	3	0
5.	31	1	0	25.	4096	3	0
6.	85	1	0	26.	187	3	0
7.	14	2	0	27.	0.13195	3	0
8.	36	1	0	28.	0.125	2	0
9.	25	1	0	29.	208	3	0
10.	49	1	0	30.	0.875	3	0
11.	13 100	1	0	31.	9 64	3	0
12.	<b>-</b> 24	1	0	32.	1.4	3	0
13.	0.5	1	0	33.	8 2/9	2	0
14.	99 100	1	0	34.	0.5	3	0
15.	$4\frac{1}{6}$	2	0	35.	$1\frac{5}{14}$	3	0
16.	196	2	0	36.	24	2	0
17.	<b>-</b> 5	2	0	37.	$19\frac{1}{8}$	3	0
18.	7	1	0	38.	$1\frac{1}{3}$	3	0
19.	2 1/5	2	0	39.	$7\frac{1}{6}$	3	0
20.	$2\frac{1}{5}$ $\frac{8}{15}$	2	0	40.	$3\frac{1}{6}$	2	0
Subtotal 1					Subtotal 2		

TOTAL = Subtotal 1 + Subtotal 2	
---------------------------------	--

$$16 + x = 33$$

$$6^3 =$$

Solve for 
$$x$$

$$2x = 64$$

6

14

Solve for 
$$x$$

$$x \div 9 = 3$$

$$X =$$

9 Solve for x

$$3x = 54$$

$$\bigcirc$$
 Solve for  $x$ 

$$x - 6 = 30$$

$$0.71 =$$

Convert to

 $\frac{2}{10} =$ 

decimal

Convert to

0.31 =

fraction

**1**5 Write fraction as mixed number

$$\frac{15}{4} =$$

16

$$16^2 =$$

17

13

$$^{-}15 - ^{-}10 - ^{-}2 =$$

18 Solve for *x* 

$$10 = 4x + 2$$

19 Write fraction as mixed number

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

$$\frac{3}{4} \cdot \frac{4}{9} =$$

55% of 80=

22 Write the answer in lowest terms

$$\frac{7}{2} \bullet \frac{5}{11} =$$

**23** Solve for *x* 

$$63 = 6x + 9$$

 $X = \underline{\hspace{1cm}}$ 

24

35% of 20=

25

$$11^{3} =$$

26

160% of 160=

27

28

$$1.23 \times 0.3$$

29

190% of 170=

30 Convert to decimal

$$\frac{1}{8} =$$

**31** Write the answer in lowest terms

$$\frac{1}{5} \div \frac{1}{3} =$$

32

Write the answer in lowest terms

$$1\frac{1}{13} + 2\frac{4}{13}$$

34

Write the answer in lowest terms

$$2\frac{2}{6}$$
 $1\frac{2}{12}$ 

$$-1\frac{2}{12}$$

36 Solve for x

$$\frac{x}{2} = 15$$

$$X =$$

Write the answer in lowest terms

$$5\frac{1}{2} \bullet 5\frac{1}{2} =$$

38 Write the answer in lowest terms

$$\frac{9}{10} \div \frac{6}{7} =$$

**39** Write the answer in lowest terms

$$2\frac{3}{5}$$

$$5\frac{4}{5}$$

$$-2\frac{3}{5}$$

Grade 8, Probe 27 Answer Key

Item		Grade	5, 1 TODE	Item	vei Key		
No.	Answer	Correct	Incorrect	No.	Answer	Correct	Incorrect
1.	1	1	0	21.	44	3	0
2.	17	1	0	22.	$1\frac{13}{22}$	2	0
3.	<b>-</b> 56	1	0	23.	9	2	0
4.	216	1	0	24.	7	3	0
5.	32	1	0	25.	1331	3	0
6.	18	1	0	26.	256	3	0
7.	-14	2	0	27.	0.13286	3	0
8.	27	1	0	28.	0.369	2	0
9.	18	1	0	29.	323	3	0
10.	36	1	0	30.	0.125	3	0
11.	<u>71</u> 100	1	0	31.	3 5	3	0
12.	<b>-</b> 19	1	0	32.	0.2	3	0
13.	0.2	1	0	33.	3 \frac{5}{13}	2	0
14.	<u>31</u> 100	1	0	34.	1.3	3	0
15.	$3\frac{3}{4}$	2	0	35.	$1\frac{1}{6}$	3	0
16.	256	2	0	36.	30	2	0
17.	<b>-</b> 3	2	0	37.	$30\frac{1}{4}$	3	0
18.	2	1	0	38.	$1\frac{1}{20}$	3	0
19.	$14\frac{1}{2}$	2	0	39.	7 1 10	3	0
20.	$\frac{1}{3}$	2	0	40.	$3\frac{1}{5}$	2	0
	Subtota	11	]		Subtotal 2		

TOTAL = Subtotal 1 + Subtotal 2

$$9^2 =$$

$$9 + x = 14$$

$$3^3 =$$

**-**5 • **-**7 =

$$\bullet$$
 Solve for  $x$ 

$$3x = 51$$

Solve for 
$$x$$

$$x \div 3 = 10$$

$$X =$$

9 Solve for x

$$4x = 52$$

$$\bigcirc$$
 Solve for  $x$ 

14

$$x - 41 = 4$$

$$0.81 =$$

Convert to

 $\frac{4}{8} =$ 

decimal

Convert to

0.7 =

fraction

**1**5 Write fraction as mixed number

$$\frac{10}{6} =$$

16

20

$$12^2 =$$

17

13

$$-10 - -8 - -1 =$$

18 Solve for *x* 

$$35 = 4x + 7$$

19 Write fraction as mixed number

$$\frac{23}{4} =$$

$$\frac{1}{3} \bullet \frac{1}{5} =$$

Write the answer

in lowest terms

50% of 10=

22 Write the answer in lowest terms

$$\frac{7}{2} \bullet \frac{7}{11} =$$

23 Solve for *x* 

$$12 = 5x + 2$$

X = \_\_\_\_

24

15% of 20=

25

 $13^3 =$ 

26

195% of 140=

27

1.023  $\times$  0.14

28

1.23  $\times$  0.5

29

130% of 140=

30 Convert to decimal

$$\frac{15}{24} =$$

**31** Write the answer in lowest terms

$$\frac{2}{4} \div \frac{5}{6} =$$

32

0.4 0.32

Write the answer in lowest terms

$$5\frac{4}{12} + 3\frac{3}{12}$$

34

Write the answer in lowest terms

$$6 \frac{5}{6}$$
$$1 \frac{1}{2}$$

36

Solve for x

$$\frac{x}{6} = 7$$

Write the answer in lowest terms

$$3\frac{1}{2} \bullet 3\frac{1}{2} =$$

38 Write the answer in lowest terms

$$\frac{8}{9} \div \frac{6}{7} =$$

**39** Write the answer in lowest terms

$$5\frac{5}{7}$$
 +  $1\frac{5}{14}$ 

$$6\frac{5}{8}$$
 $-1\frac{2}{8}$ 

Grade 8, Probe 28 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect	
1.	81	1	0	21.	5	3	0	
2.	5	1	0	22.	$2\frac{5}{22}$	2	0	
3.	<b>-</b> 24	1	0	23.	2	2	0	
4.	27	1	0	24.	3	3	0	
5.	17	1	0	25.	2197	3	0	
6.	35	1	0	26.	273	3	0	
7.	<b>-</b> 57	2	0	27.	0.14322	3	0	
8.	30	1	0	28.	0.615	2	0	
9.	13	1	0	29.	182	3	0	
10.	45	1	0	30.	0.625	3	0	
11.	81 100	1	0	31.	$\frac{3}{5}$	3	0	
12.	<del>-</del> 34	1	0	32.	0.8	3	0	
13.	0.5	1	0	33.	8 <del>7</del> 12	2	0	
14.	$\frac{7}{10}$	1	0	34.	0.8	3	0	
15.	$ \frac{7}{10} $ $ 1\frac{2}{3} $	2	0	35.	$5\frac{1}{3}$	3	0	
16.	144	2	0	36.	42	2	0	
17.	<b>-</b> 1	2	0	37.	$12\frac{1}{4}$	3	0	
18.	7	1	0	38.	$1\frac{1}{27}$	3	0	
19.	$5\frac{3}{4}$	2	0	39.	$7\frac{1}{14}$	3	0	
20.	1 15	2	0	40.	$5\frac{3}{8}$	2	0	
Subtotal 1 Subtotal 2								

TOTAL = Subtotal 1 + Subtotal 2	
---------------------------------	--

$$8^2 =$$

Solve for x

$$9 + x = 47$$

$$3^3 =$$

 $\mathbf{5}$  Solve for x

$$2x = 96$$

6

$$-24 + 5 - 25 =$$

Solve for 
$$x$$

$$x \div 4 = 7$$

9 Solve for x

$$3x = 48$$

Solve for 
$$x$$

$$x - 42 = 3$$

$$0.59 =$$

$$0.59 =$$

-8 + -5 + -7 =

Convert to

decimal

$$\frac{6}{10} =$$

14 Convert to fraction

*X* = \_\_\_\_\_

**1**5 Write fraction as mixed number

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

16

20

$$16^2 =$$

17

13

18 Solve for *x* 

$$85 = 9x + 4$$

19 Write fraction as mixed number

$$\frac{14}{5} =$$

$$\frac{1}{2} \bullet \frac{1}{6} =$$

Write the answer

in lowest terms

30% of 20=

Write the answer in lowest terms

$$\frac{9}{3} \cdot \frac{5}{11} =$$

\_\_\_\_

23 Solve for x

$$34 = 8x + 2$$

X = \_\_\_\_\_

24

10% of 80=

\_\_\_\_

25

$$18^{3} =$$

26

27

28

$$1.03 \times 0.4$$

29

200% of 150=

30 Convert to decimal

$$\frac{2}{16} =$$

Write the answer in lowest terms

$$\frac{2}{8} \div \frac{4}{5} =$$

32

Write the answer in lowest terms

34

Write the answer in lowest terms

$$2\frac{5}{7}$$
 $1\frac{5}{14}$ 

36 Solve for x

$$\frac{x}{2} = 19$$

Write the answer in lowest terms

$$2\frac{4}{9} \bullet 3\frac{2}{7} =$$

Write the answer in lowest terms

$$\frac{2}{3} \div \frac{1}{5} =$$

Write the answer in lowest terms

$$3\frac{1}{8}$$
 +  $3\frac{15}{16}$ 

$$7 \frac{8}{13} - 4 \frac{3}{13}$$

Grade 8, Probe 29 Answer Key

Grade 6, 110be 27 Allswer Rey								
Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect	
1.	64	1	0	21.	6	3	0	
2.	38	1	0	22.	$1\frac{4}{11}$	2	0	
3.	<del>-</del> 34	1	0	23.	4	2	0	
4.	27	1	0	24.	8	3	0	
5.	48	1	0	25.	5832	3	0	
6.	48	1	0	26.	150	3	0	
7.	<del>-</del> 44	2	0	27.	0.13026	3	0	
8.	28	1	0	28.	0.412	2	0	
9.	16	1	0	29.	300	3	0	
10.	45	1	0	30.	0.125	3	0	
11.	<u>59</u> 100	1	0	31.	<u>5</u> 16	3	0	
12.	<b>-</b> 20	1	0	32.	0.5	3	0	
13.	0.6	1	0	33.	$11\frac{5}{9}$	2	0	
14.	$\frac{17}{100}$	1	0	34.	2.4	3	0	
15.	$1\frac{2}{3}$	2	0	35.	$1\frac{5}{14}$	3	0	
16.	256	2	0	36.	38	2	0	
17.	24	2	0	37.	$8\frac{2}{63}$	3	0	
18.	9	1	0	38.	$3\frac{1}{3}$	3	0	
19.	$2\frac{4}{5}$	2	0	39.	$7\frac{1}{16}$	3	0	
20.	1/12	2	0	40.	$3\frac{5}{13}$	2	0	
	Subtot	al 1		Subtotal 2		1		

Subtotal 1		Subtotal 2	

**TOTAL** = Subtotal 1 + Subtotal 2

$$6^2 =$$

$$15 + x = 34$$

$$8^3 =$$

**-4** • **-10** =

$$\bullet$$
 Solve for  $x$ 

$$2x = 86$$

Solve for 
$$x$$

$$x \div 2 = 14$$

9 Solve for x

$$3x = 45$$

Solve for 
$$x$$

$$x - 9 = 30$$

$$0.73 =$$

Convert to

decimal

Convert to

fraction

$$\frac{19}{5} =$$

mixed number

$$19^{2} =$$

 $\frac{1}{2} =$ 

14

18

$$0.79 =$$

19 Write fraction as mixed number

20

Write the answer in lowest terms

$$\frac{3}{5} \bullet \frac{8}{9} =$$

17

13

$$70 = 8x + 6$$

Solve for *x* 

$$\frac{14}{4} =$$

$$\frac{3}{5} \cdot \frac{8}{9} =$$

10% of 10=

Write the answer in lowest terms

$$\frac{9}{2} \bullet \frac{9}{11} =$$

\_\_\_\_

23 Solve for x

$$16 = 7x + 2$$

*X* = \_\_\_\_\_

24

40% of 60=

\_\_\_\_

25

$$12^{3} =$$

26

27

$$\begin{array}{c} \textbf{1.021} \\ \times \textbf{0.12} \end{array}$$

28

$$1.25 \times 0.3$$

29

180% of 130=

30 Convert to decimal

$$\frac{9}{24} =$$

Write the answer in lowest terms

$$\frac{2}{6} \div \frac{5}{8} =$$

32

Write the answer in lowest terms

$$6\frac{1}{12} + 3\frac{4}{12}$$

34

Write the answer in lowest terms

$$6\frac{5}{8}$$
 $5\frac{3}{16}$ 

36 Solve for x

$$\frac{x}{5} = 2$$

Write the answer in lowest terms

$$4\frac{1}{3} \cdot 4\frac{1}{4} =$$

Write the answer in lowest terms

$$\frac{6}{8} \div \frac{4}{7} =$$

Write the answer in lowest terms

$$14\frac{2}{3} + 3\frac{5}{6}$$

$$\begin{array}{r}
 5 \overline{11} \\
 -2 \overline{2} \\
 \overline{11}
 \end{array}$$

**Grade 8, Probe 30 Answer Key** 

Item				Item			
No.	Answer 36	Correct	Incorrect 0	No. 21.	Answer 1	Correct 3	Incorrect ()
2.	19	1	0	22.	$3\frac{15}{22}$	2	0
3.	<b>-</b> 60	1	0	23.	22 2	2	0
4.	512	1	0	24.	24	3	0
5.	43	1	0	25.	1728	3	0
6.	40	1	0	26.	154	3	0
7.	<b>-</b> 70	2	0	27.	0.12252	3	0
8.	28	1	0	28.	0.375	2	0
9.	15	1	0	29.	234	3	0
10.	39	1	0	30.	0.375	3	0
11.	$\frac{73}{100}$	1	0	31.	8 15	3	0
12.	-28	1	0	32.	1.1	3	0
13.	0.5	1	0	33.	9 5/12	2	0
14.	79 100	1	0	34.	0.5	3	0
15.	$3\frac{4}{5}$	2	0	35.	$1\frac{7}{16}$	3	0
16.	361	2	0	36.	10	2	0
17.	11	2	0	37.	$18\frac{5}{12}$	3	0
18.	8	1	0	38.	$1\frac{5}{16}$	3	0
19.	$3\frac{1}{2}$	2	0	39.	$18\frac{1}{2}$	3	0
20.	8 15	2	0	40.	$3\frac{3}{11}$	2	0
Subtotal 1							

Subtotal 1	Subtotal 2	

TOTAL = Subtotal 1 + Subtotal 2	
---------------------------------	--

$$38 + x = 45$$

*X* = \_\_\_\_\_

**-**2 • **-**13 =

6

14

**3** 

$$7^3 =$$

$$\bigcirc$$
 Solve for  $x$ 

$$5x = 70$$

$$-2 - 22 + 18 =$$

Solve for 
$$x$$

$$x \div 7 = 5$$

3x = 69

9 Solve for x

$$x - 2 = 36$$

$$0.57 =$$

X =

Convert to

 $\frac{4}{10} =$ 

decimal

Convert to

0.77 =

fraction

**1**5 Write fraction as mixed number

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

16

$$17^2 =$$

13

$$-11 - -15 - -5 =$$

18 Solve for *x* 

$$69 = 8x + 5$$

19 Write fraction as mixed number

$$\frac{18}{5} =$$

$$=$$
  $\frac{3}{4} \cdot \frac{7}{9} =$ 

20

$$\frac{3}{4} \bullet \frac{7}{9} =$$

Write the answer

in lowest terms

60% of 55=

22 Write the answer in lowest terms

$$\frac{9}{3} \cdot \frac{9}{11} =$$

**23** Solve for *x* 

$$37 = 5x + 2$$

X = \_\_\_\_

24

45% of 80=

25

$$15^3 =$$

26

27

28

29

30 Convert to decimal

$$\frac{5}{8} =$$

**31** Write the answer in lowest terms

$$\frac{2}{6} \div \frac{5}{8} =$$

32

Write the answer in lowest terms

$$1 \frac{1}{13} + 2 \frac{4}{13}$$

34

Write the answer in lowest terms

$$4\frac{5}{8}$$
 $3\frac{3}{16}$ 

$$\frac{x}{3} = 9$$

Write the answer in lowest terms

$$1\frac{1}{3} \bullet 1\frac{1}{5} =$$

38 Write the answer in lowest terms

$$\frac{9}{10} \div \frac{3}{4} =$$

**39** Write the answer in lowest terms

$$4\frac{5}{7}$$
 + 2 $\frac{5}{14}$ 

Grade 8, Probe 31 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	16	1	0	21.	33	3	0
2.	7	1	0	22.	$2\frac{5}{11}$	2	0
3.	<b>-</b> 12	1	0	23.	7	2	0
4.	343	1	0	24.	36	3	0
5.	14	1	0	25.	3375	3	0
6.	26	1	0	26.	143	3	0
7.	<b>-</b> 6	2	0	27.	0.12156	3	0
8.	35	1	0	28.	0.62	2	0
9.	23	1	0	29.	210	3	0
10.	38	1	0	30.	0.625	3	0
11.	<u>57</u> 100	1	0	31.	<u>8</u> 15	3	0
12.	<b>-</b> 31	1	0	32.	2.7	3	0
13.	0.4	1	0	33.	$3\frac{5}{13}$	2	0
14.	77 100	1	0	34.	0.6	3	0
15.	$7\frac{1}{4}$	2	0	35.	$1\frac{7}{16}$	3	0
16.	289	2	0	36.	27	2	0
17.	9	2	0	37.	$1\frac{3}{5}$	3	0
18.	8	1	0	38.	$1\frac{3}{5}$ $1\frac{1}{5}$	3	0
19.	$3\frac{3}{5}$	2	0	39.	$7\frac{1}{14}$ $1\frac{2}{5}$	3	0
20.	7 12	2	0	40.	$1\frac{2}{5}$	2	0
	Subtotal	1			Subtotal 2		

TOTAL = Subtotal 1 + Subtotal 2	

$$8 + x = 31$$

**3** 

$$7^3 =$$

Solve for x

$$2x = 54$$

6

14

Solve for 
$$x$$

$$x \div 5 = 9$$

9 Solve for x

$$4x = 92$$

Solve for 
$$x$$

$$x - 35 = 3$$

$$0.59 =$$

Convert to

 $\frac{8}{10} =$ 

decimal

Convert to

0.97 =

fraction

**1**5 Write fraction as mixed number

$$\frac{27}{5} =$$

16

20

17

13

$$-15 - -1 - -7 =$$

18 Solve for *x* 

$$86 = 9x + 5$$

19 Write fraction as mixed number

$$\frac{14}{6}$$
 =

in lowest terms

$$\frac{1}{2} \bullet \frac{1}{4} =$$

Write the answer

22 Write the answer in lowest terms

$$\frac{9}{5} \bullet \frac{8}{11} =$$

**23** Solve for *x* 

$$44 = 7x + 2$$

25

$$13^3 =$$

26

27

28

29

30 Convert to decimal

$$\frac{10}{16} =$$

**31** Write the answer in lowest terms

$$\frac{2}{6} \div \frac{2}{3} =$$

32

Write the answer in lowest terms

$$3\frac{5}{14} + 6\frac{4}{14}$$

34

Write the answer in lowest terms

36 Solve for 
$$x$$

$$\frac{X}{9} = 4$$

Write the answer in lowest terms

$$1\frac{1}{3} \bullet 1\frac{3}{4} =$$

38 Write the answer in lowest terms

$$\frac{7}{9} \div \frac{3}{7} =$$

**39** Write the answer in lowest terms

$$16\frac{5}{7} + 3\frac{5}{14}$$

Grade 8, Probe 32 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	16	1	0	21.	5	3	0
2.	23	1	0	22.	$1\frac{17}{55}$	2	0
3.	<b>-</b> 51	1	0	23.	6	2	0
4.	343	1	0	24.	9	3	0
5.	27	1	0	25.	2197	3	0
6.	32	1	0	26.	189	3	0
7.	<del>-</del> 33	2	0	27.	0.14168	3	0
8.	45	1	0	28.	0.312	2	0
9.	23	1	0	29.	273	3	0
10.	38	1	0	30.	0.625	3	0
11.	<u>59</u> 100	1	0	31.	$\frac{1}{2}$	3	0
12.	<del>-</del> 34	1	0	32.	1.2	3	0
13.	0.8	1	0	33.	9 9/14	2	0
14.	97 100	1	0	34.	1.7	3	0
15.	$5\frac{2}{5}$	2	0	35.	$1\frac{1}{9}$	3	0
16.	121	2	0	36.	36	2	0
17.	<del>-</del> 7	2	0	37.	$2\frac{1}{3}$	3	0
18.	9	1	0	38.	$1\frac{22}{27}$	3	0
19.	$2\frac{1}{3}$	2	0	39.	$20\frac{1}{14}$	3	0
20.	1/8	2	0	40.	$2\frac{1}{9}$	2	0
Subtotal 1					Subtotal 2		

TOTAL CO.	
TOTAL = Subtotal 1 + Subtotal 2	

1

Solve for x

$$16 + x = 49$$

3

**'** 

$$8^3 =$$

\_\_\_\_\_

 $\bullet$  Solve for x

$$2x = 92$$

**-**11 • **-**4 =

6

Solve for x

$$x \div 5 = 4$$

\_\_\_\_

Solve for x

$$3x = 81$$

 $\bigcirc$  Solve for x

$$x - 9 = 38$$

Convert to fraction

$$0.23 =$$

12

\_\_\_\_

Write fraction as

16

$$13^{2} =$$

Convert to decimal

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

fraction

14

$$0.41 =$$

Convert to

 $\frac{23}{3} =$ 

**1**5

19

Write fraction as

mixed number

17

 $\bigcirc$  Solve for x

$$72 = 8x + 8$$

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

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

40% of 85=

22 Write the answer in lowest terms

$$\frac{9}{6} \bullet \frac{8}{11} =$$

23 Solve for *x* 

$$40 = 9x + 4$$

X = \_\_\_\_

24

55% of 20=

25

$$12^3 =$$

160% of 140=

26

27

$$\begin{array}{c} 1.013 \\ \times \ 0.13 \end{array}$$

28

$$1.04 \times 0.4$$

29

130% of 130=

30 Convert to decimal

$$\frac{1}{8} =$$

**31** Write the answer in lowest terms

$$\frac{1}{7} \div \frac{4}{7} =$$

32

Write the answer in lowest terms

$$3\frac{2}{7} + 3\frac{2}{3}$$

34

Write the answer in lowest terms

$$6\frac{5}{8}$$
 $5\frac{3}{16}$ 

36 Solve for x

$$\frac{X}{4} = 8$$

Write the answer in lowest terms

$$3\frac{1}{2} \bullet 3\frac{1}{2} =$$

38 Write the answer in lowest terms

$$\frac{4}{5} \div \frac{3}{8} =$$

**39** Write the answer in lowest terms

$$3\frac{3}{4}$$

$$-3\frac{2}{8}$$

Grade 8, Probe 33 Answer Key

Item No.	Answer	Correct	Incorrect	Item No.	Answer	Correct	Incorrect
1.	16	1	0	21.	34	3	0
2.	33	1	0	22.	$1\frac{1}{11}$	2	0
3.	<del>-</del> 44	1	0	23.	4	2	0
4.	512	1	0	24.	11	3	0
5.	46	1	0	25.	1728	3	0
6.	44	1	0	26.	224	3	0
7.	<b>-</b> 43	2	0	27.	0.13169	3	0
8.	20	1	0	28.	0.416	2	0
9.	27	1	0	29.	169	3	0
10.	47	1	0	30.	0.125	3	0
11.	23 100	1	0	31.	1/4	3	0
12.	<b>-</b> 23	1	0	32.	0.6	3	0
13.	0.7	1	0	33.	$6\frac{4}{7}$	2	0
14.	41 100	1	0	34.	0.4	3	0
15.	$7\frac{2}{3}$	2	0	35.	$1\frac{7}{16}$	3	0
16.	169	2	0	36.	32	2	0
17.	15	2	0	37.	$12\frac{1}{4}$	3	0
18.	8	1	0	38.	$2\frac{2}{15}$	3	0
19.	$5\frac{3}{5}$	2	0	39.	$ \begin{array}{r} 2\frac{2}{15} \\ 6\frac{3}{8} \\ 1\frac{3}{8} \end{array} $	3	0
20.	<u>4</u> 15	2	0	40.	$1\frac{3}{8}$	2	0
Subtotal 1					Subtotal 2		

TOTAL = Subtotal 1 + Subtotal 2	