

- 1) What is thirty-two and twelve thousandths in standard form?
- A) 32.12
 - B) 32.012
 - C) 32.0012
 - D) 32.00012
- 2) What is 52.01 in expanded form?
- A) $(5 \times 10) + (2 \times 1) + (1 \times 0.01)$
 - B) $(5 \times 10) + (2 \times 1) + (1 \times 0.001)$
 - C) $(5 \times 10) + (2 \times 1) + (1 \times 0.1)$
 - D) $(5 \times 10) + (2 \times 1) + (1 \times 100)$
- 3) Order the following values from least to greatest: 3.56, -2.5, $1\frac{5}{6}$, -4
- A) -2.5, -4, $1\frac{5}{6}$, 3.56
 - B) -4, -2.5, $1\frac{5}{6}$, 3.56
 - C) $1\frac{5}{6}$, 3.56, -2.5, -4
 - D) $1\frac{5}{6}$, -2.5, 3.56, -4
- 4) What is $\frac{3}{4}$ in decimal form?
- A) 0.315
 - B) 3.15
 - C) 0.2
 - D) 0.75
- 5) Round 410.458 to the hundredths place value.
- A) 400
 - B) 410.46
 - C) 410.5
 - D) 410.400
- 6) Find the sum of 0.796 and 48.51.
- A) 49.306
 - B) 56.47
 - C) 47.714
 - D) 493.06
- 7) Find the difference of 82 and 67.18 .
- A) 25.18
 - B) 14.82
 - C) 149.18
 - D) 15.18

8) Find the product of 5.04 and 3.2.

- A) 5.36
- B) 161.28
- C) 16.128
- D) 8.24

9) Find the quotient of 1.08 and 2.7.

- A) 0.4
- B) 2.5
- C) 2.916
- D) 1.62

10) Find the prime factorization of 75.

- A) 3×25
- B) 5×15
- C) 7×5
- D) $3 \times 5 \times 5$

11) Use exponents to re-write the following problem $2 \times 2 \times 2 \times 3 \times 3 \times 3 \times 3 \times 5$

- A) $2^3 \times 3^4 \times 5$
- B) $2 \times 3 \times 5$
- C) $2^2 \times 3^3 \times 5^2$
- D) $2^4 \times 3^3 \times 5$

12) Find the GCF of 48 and 60

- A) 2
- B) 24
- C) 12
- D) 6

13) Replace the \square with the correct number so the fractions are equivalent $\frac{7}{9}$ and $\frac{42}{\square}$.

- A) 18
- B) 54
- C) 9
- D) 56

14) Write $2\frac{3}{5}$ as an improper fraction.

- A) $\frac{10}{5}$
- B) $\frac{8}{5}$
- C) $\frac{11}{3}$
- D) $\frac{13}{5}$

15) Find the LCM of 6 and 8

- A) 48
- B) 24
- C) 18
- D) 16

16) Which is true?

- A) $\frac{3}{4} = 0.80$
- B) $0.5 = \frac{1}{5}$
- C) $\frac{5}{8} = 0.58$
- D) $0.25 = \frac{1}{4}$

17) Solve $\frac{1}{8} + \frac{3}{8} = \underline{\hspace{2cm}}$. Write your answer in simplest form.

- A) $\frac{4}{8}$
- B) $\frac{2}{8}$
- C) $\frac{4}{16}$
- D) $\frac{1}{2}$

18) Solve $\frac{3}{5} + \frac{4}{7} = \underline{\hspace{2cm}}$. Write your answer in simplest form.

- A) $\frac{7}{12}$
- B) $\frac{1}{5}$
- C) $1\frac{6}{35}$
- D) $1\frac{1}{2}$

19) Solve $8\frac{1}{3} - 1\frac{5}{6} = \underline{\hspace{2cm}}$. Write your answer in simplest form.

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

B) $6\frac{1}{2}$

C) $6\frac{3}{35}$

D) $10\frac{1}{6}$

20) Solve $8\frac{1}{6} - 1\frac{5}{6} = \underline{\hspace{2cm}}$. Write your answer in simplest form.

A) $6\frac{1}{3}$

B) 10

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

D) 7

21) Solve $\frac{2}{3} \times \frac{5}{6} = \underline{\hspace{2cm}}$. Write your answer in simplest form.

A) $\frac{10}{18}$

B) $\frac{7}{9}$

C) $\frac{5}{9}$

D) $\frac{20}{36}$

22) Solve $3\frac{3}{5} \times 5\frac{5}{12} = \underline{\hspace{2cm}}$. Write your answer in simplest form.

A) $19\frac{1}{2}$

B) $15\frac{1}{4}$

C) $15\frac{15}{60}$

D) $\frac{39}{2}$

- 23) Solve $5 \div \frac{3}{4} = \underline{\hspace{2cm}}$. Write your answer in simplest form.
- A) $6\frac{2}{3}$
 - B) $3\frac{3}{4}$
 - C) $6\frac{4}{9}$
 - D) $\frac{5}{12}$
- 24) What is 0.38 as a percent?
- A) 0.38%
 - B) 3.8%
 - C) 38%
 - D) 380%
- 25) What is $\frac{3}{15}$ as a decimal?
- A) 0.315
 - B) 3.15
 - C) 0.2
 - D) 2
- 26) How much would a 20% tip be on an order of \$23.40?
- A) \$ 2.34
 - B) \$ 468
 - C) \$ 4.68
 - D) \$ 234
- 27) What is the final price of a boogie board that is regularly priced at \$69 and is on sale for 35% off? (Do NOT include tax)
- A) \$ 4485
 - B) \$ 34
 - C) \$ 24.15
 - D) \$ 44.85
- 28) Amelia has \$580 in a savings account that pays 3% simple interest. How much interest will she earn in 5 years? (Use the formula $I = PRT$)
- A) \$ 1740
 - B) \$ 87
 - C) \$ 870
 - D) \$ 17.40

29) Solve. $(-4) + 5$

- A) (-9)
- B) (-1)
- C) 1
- D) 9

30) Solve. $3 - (-6)$

- A) (-9)
- B) (-3)
- C) 3
- D) 9

31) Solve. $(-5) \times (-6)$

- A) (-30)
- B) (-11)
- C) 11
- D) 30

32) Solve. $49 \div (-7)$

- A) (-7)
- B) (-42)
- C) 7
- D) 42

33) Find the value of the expression: $|-5|$

- A) (-5)
- B) (-10)
- C) 5
- D) 10

34) Which model shows the ratio 3:1?

- A) ▲ ●●●
- B) ▲▲ ●
- C) ▲▲▲ ●●
- D) ▲▲▲ ●

35) Find the unit rate: \$9.00 for 3 cases of soda.

- A) 27 cases per \$1
- B) \$27 per case
- C) \$3 per case
- D) 3 cases per \$1

36) Are 3 free throws out of 7 attempts equivalent to 9 free throws out of 14 attempts?

- A) yes
- B) no

37) Solve this proportion: $\frac{4}{7} = \frac{x}{35}$

- A) 5
- B) 28
- C) 24
- D) 20

38) Solve $5^3 - 12 \div 3$

- A) 21
- B) 1
- C) 121
- D) 11

39) Use the Distributive Property to rewrite $3(x + 1)$

- A) $3x + 1$
- B) $x + 3$
- C) $3x + 3$
- D) $4x$

40) $20 + 2x = 2x + 20$ is an example of which property?

- A) Associative Property
- B) Multiplicative Identity Property
- C) Commutative Property
- D) Distributive Property

41) $(x + 14) + 22 = x + (14 + 22)$ is an example of which property?

- A) Associative Property
- B) Multiplicative Identity Property
- C) Commutative Property
- D) Distributive Property

42) Solve $x + 12 = 40$

- A) 28
- B) 52
- C) 38
- D) 18

43) Solve $x - 6 = 6$

- A) 12
- B) 0
- C) 9
- D) 1

44) Solve $5x = 40$

- A) 35
- B) 10
- C) 8
- D) 0

45) Solve $\frac{27}{x} = 9$

- A) 3
 B) 4
 C) 5
 D) 6

46) Solve $x - 6 > 1$

- A) $x > 7$
 B) $x < 7$
 C) $x > 5$
 D) $x < 5$

47) Determine the next term in the sequence: 243, 81, 27, _____.

- A) 18
 B) 20
 C) 3
 D) 9

48) Write an equation from this function

Input, x	1	2	3	4	5
Output, y	6	12	18	24	30

- A) $y = x + 6$
 B) $y = 2x$
 C) $y = x + 5$
 D) $y = 6x$

49) Find the coordinates for the letter C

- A) (1, 1)
 B) (1, -1)
 C) (-1, -1)
 D) (-1, 1)

50) Name the quadrant for letter N

- A) I
 B) II
 C) III
 D) IV

51) Which letter is at (5, 9)

- A) T
 B) N
 C) A
 D) C

