1. Choose the correct answer.

1. The G.C.F of 15 and 30 is .....

A. 15 B. 30 C. 5 D. 3

2. $24 + 16 =$ .....

A. $16\,[2 + 1]$ B. $8\,[3 + 2]$ C. $2\,[12 + 6]$ D. $4\,[6 + 12]$

3. $840 \div 35 =$ .....

A. 23 B. 24 C. 18 D. 16

4. $3\frac{1}{2} + 4\frac{3}{4} =$ .....

A. $8\frac{1}{2}$ B. $7\frac{4}{7}$ C. $7\frac{4}{6}$ D. $8\frac{1}{4}$

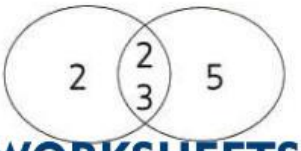
5. L.C.M of 7 and 14 is .....

A. 0 B. 1 C. 7 D. 14

6. $\frac{2}{7} + \frac{1}{7} + \frac{3}{7} + \frac{4}{7} =$ .....

A. $\frac{7}{9}$ B. $1\frac{2}{7}$ C. $1\frac{3}{7}$ D. $1\frac{4}{7}$

7. The opposite Venn diagram represent prime factorization of two numbers then G.C.F of them = ...



A. 2 B. 4

C. 6 D. 10

3. Choose the correct answer.

1. Which of the following are relatively prime numbers ?

   A. 4 and 6 **B.** 8 and 15 **C.** 8 and 18 **D.** 8 and 24

2. The L.C.M of 6 and 10 = _____

   A. 6 **B.** 2 **C.** 20 **D.** 30

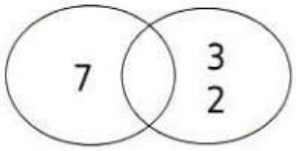
3. 20 + 40 = _____

   A. 20 [0 + 20] **B.** 20 [1 + 2] **C.** 20 [0 + 2] **D.** 20

4. $1\frac{1}{6} - \frac{2}{3} =$ _____

   A. $1\frac{1}{3}$ **B.** $1\frac{2}{3}$ **C.** $\frac{1}{2}$ **D.** $\frac{1}{4}$

5. The opposite Venn diagram represent prime factorization of two numbers then G.C.F of then = _____



   A. 0 **B.** 6 **C.** 42 **D.** 1

6. 45 + 27 = 9 [_____]

   A. 9 + 3 **B.** 5 + 3 **C.** 9 – 3 **D.** 4 + 2

7. $\frac{1}{4} + \frac{1}{5} =$ _____

   A. $\frac{2}{9}$ **B.** $\frac{9}{5}$ **C.** $\frac{9}{20}$ **D.** $\frac{1}{20}$

1. Choose the correct answer.

1. Which of the following is an integer?

A. 3.75 B. $-\frac{3}{7}$ C. $\frac{7}{7}$ D. $2\frac{1}{2}$

2. The smallest natural number is _____

A. $-1{,}000$ B. -1 C. 0 D. 1

3. $-\frac{3}{4}$ ◯ $-\frac{1}{2}$

A. $>$ B. $<$ C. $=$

4. $|-8| >$ _____

A. $|-9|$ B. $|-7|$ C. 9 D. 8

5. The opposite number of $-\frac{3}{8}$ is _____

A. $-\frac{3}{8}$ B. $\frac{8}{3}$ C. $-\frac{8}{3}$ D. $|-\frac{3}{8}|$

6. The integer which comes just before -3 is _____

A. -2 B. -4 C. -1 D. 0

7. The best subset for of the number -2 is _____

A. a counting number B. an integer

C. a natural number D. a rational number

3. Choose the correct answer.

1. The rational number between -3.1 and -3.17 is _____

   A. -3.2 **B.** 3.15 **C.** -3.14 **D.** -3.18

2. Which of the following is the greatest number?

   A. -10 **B.** $|-10|$ **C.** -11 **D.** 9

3. The set of counting numbers _____ the set of rational numbers

   A. belongs **B.** does not belong **C.** is a subset of **D.** is not a subset of

4. The additive inverse of $|-2|$ is _____

   A. 2 **B.** -2 **C.** $-\frac{9}{3}$ **D.** $-\frac{12}{4}$

5. $|-3|+|-2|=$ _____

   A. 5 **B.** -5 **C.** 6 **D.** 0

6. All integers are also _____ numbers.

   A. counting **B.** natural **C.** rational

7. -3 _____ set of natural numbers.

   A. belongs **B.** does not belong **C.** is a subset of **D.** is not a subset of

1. Choose the correct answer.

1. Number of terms of the expression $3x + 2y - 5$ is _____

   A. 2 B. 3 C. 4 D. 5

2. Which of the following are like terms ?

   A. $5, 7$ B. $2x, x^2$ C. $5a, 5b$ D. m^2, n^2

3. The coefficient in the expression $6 - 3 + 5x$ is _____

   A. $6, 3$ B. x C. $5x$ D. 5

4. Number of like terms in the expression $4a + 4b + 5$ is _____

   A. 3 B. 2 C. 1 D. zero

5. Subtract 8 from the number k in algebraic form is _____

   A. $8 - k$ B. $8 + k$ C. $k - 8$ D. $8k$

6. Sameh has 50 L.E. He bought 3 pens each for k L.E., then the remainder is _____

   A. 30 B. $3 + 50k$ C. $50 - 3k$ D. $50 + 3k$

7. Take away twice the number k from 15 is written as _____

   A. $2k - 15$ B. $15 + 2k$ C. $15 - 2k$ D. $15 - k^2$

2. Which of the following expression has the same value of $3x + 5$ at $x = 3$

A. $3(x + 1) + 5$ B. $4x + 1$ C. $5x + 3$ D. $x^2 + 5$

3. 5 Cube = _____

A. 5×5 B. 3^5 C. 5^3 D. 625

4. 5 times a number less 7 is _____

A. $5b + 7$ B. $7 - 5b$ C. $b^2 - 7$ D. $5b - 7$

5. The first operation or exponent you perform in $3 \times 5 + 3(2^3 - 5) - 4 \div 2$

A. parantheses B. plus C. multiply D. exponent

6. The value of the expression $5 + (x^2 - 3)$ for $x = 3$ is _____

A. 6 B. 11 C. 9 D. 12

7. $7 + 3($_____$+ 5) - 4$, complete to get a numeric expression.

A. b B. k^2 C. $12 \div 2$ D. $x + y$