



## Choose the correct answer

- (1) The number ..... is neither negative nor positive.  
**a** 0                      **b** 1                      **c** -1                      **d** -2
- (2) The mean of the values: 5, 6, 4 is .....  
**a** 4                      **b** 5                      **c** 6                      **d** 7
- (3)  $|-14| = \dots\dots$   
**a** 14                      **b** -14                      **c** 0                      **d** 1400
- (4) Add 5 to the number  $x$ , then multiply the result by 7  
**a**  $(5+x) \times 7$                       **b**  $5+x \times 7$                       **c**  $(5-x) \times 7$                       **d**  $(x-5) \times 2$
- (5) The set of counting numbers is ..... the set of natural numbers.  
**a** belongs to                      **b** not belongs to  
**c** a subset of                      **d** not a subset of
- (6)  $3x + 4 = 10$  is called .....  
**a** inequality                      **b** equation                      **c** expression                      **d** term
- (7) The first operation to evaluate the expression:  $3 \times 8 \div 2 \div (1 + 3)$  is .....  
**a** addition                      **b** subtraction                      **c** multiplication                      **d** division
- (8) ..... is a categorical data.  
**a** Age                      **b** Weight                      **c** Length                      **d** Favorite color
- (9)  $2\frac{1}{5} \dots\dots -5\frac{1}{2}$   
**a** <                      **b** >                      **c** =                      **d**  $\leq$
- (10) The outlier of the values: 25, 27, 28, 3, 29 is .....  
**a** 29                      **b** 24                      **c** 3                      **d** 27
- (11) The GCF for the relatively prime numbers is .....  
**a** 0                      **b** 1                      **c** 2                      **d** otherwise
- (12) All integer numbers are ..... numbers.  
**a** counting                      **b** natural                      **c** rational                      **d** otherwise
- (13)  $-(-3) = \dots\dots$   
**a** 3                      **b** -3                      **c** 0                      **d** 6



- (14)  $-|-3| = \dots\dots\dots$   
**a** 3                      **b** -3                      **c** 0                      **d** 6
- (15)  $3x + 4 < 10$  is called  $\dots\dots\dots$   
**a** inequality              **b** equation              **c** expression              **d** term
- (16) The range of the values: 50, 45, 20, 34, 44 is  $\dots\dots\dots$   
**a** 20                      **b** 50                      **c** 44                      **d** 30
- (17) The coefficient in the expression:  $5x + 3$  is  $\dots\dots\dots$   
**a** 3                      **b** 5                      **c**  $x$                       **d** 2
- (18) The number of terms in the expression:  $5x + 3$  is  $\dots\dots\dots$   
**a** 3                      **b** 5                      **c**  $x$                       **d** 2
- (19) The constant in the expression:  $5x + 3$  is  $\dots\dots\dots$   
**a** 3                      **b** 5                      **c**  $x$                       **d** 2
- (20) The variable in the expression:  $5x + 3$  is  $\dots\dots\dots$   
**a** 3                      **b** 5                      **c**  $x$                       **d** 2
- (21) The like terms in the expression  $7x - 2y + 4x$  are  $\dots\dots\dots$  and  $\dots\dots\dots$   
**a** 7, 2                      **b** 7, 4                      **c**  $7x, 4x$                       **d** 2, 4
- (22) The number of like terms in the expression  $7x - 2y + 4x$  is  $\dots\dots\dots$   
**a** 1                      **b** 2                      **c**  $7x, 4x$                       **d** 7
- (23) The smallest positive integer is  $\dots\dots\dots$   
**a** 0                      **b** 1                      **c** -1                      **d** 2
- (24) The smallest non-negative integer is  $\dots\dots\dots$   
**a** 0                      **b** 1                      **c** -1                      **d** 2
- (25) The greatest negative integer is  $\dots\dots\dots$   
**a** 0                      **b** 1                      **c** -1                      **d** 2
- (26) The greatest non-positive integer is  $\dots\dots\dots$   
**a** 0                      **b** 1                      **c** -1                      **d** 2
- (27) From the opposite Venn diagram:  
the GCF =  $\dots\dots\dots$

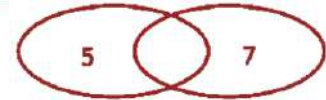


- a** 2                      **b** 3                      **c** 6                      **d** 36



(28) From the opposite Venn diagram: the GCF = .....

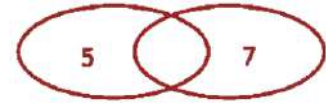
- a** 0                      **b** 1                      **c** 5



- d** 35

(29) From the opposite Venn diagram: the LCM = .....

- a** 1                      **b** 7                      **c** 5



- d** 35

(30) If  $y = 2x + 7$ , then the independent variable is .....

- a**  $y$                       **b** 2                      **c**  $x$                       **d** 7

(31) If  $x \div 4 = 3$ , then  $x =$  .....

- a**  $3 + 4$                       **b**  $3 - 4$                       **c**  $3 \times 4$                       **d**  $3 \div 4$

(32) Your mass is a ..... data.

- a** numerical                      **b** categorical                      **c** descriptive                      **d** otherwise

(33) The median of the values: 3, 5, 4 is .....

- a** 0                      **b** 3                      **c** 4                      **d** 5

(34) If the median of the values  $(k + 1, k + 2, k + 3)$  is 12, then  $k =$  .....

- a** 1                      **b** 2                      **c** 10                      **d** 12

(35) The prime factors of 15 are ..... and .....

- a** 1, 15                      **b** 3, 5                      **c** 9, 6                      **d** 5, 7

(36)  $5 - 2\frac{3}{5} =$  .....

- a**  $3\frac{2}{5}$                       **b**  $7\frac{2}{5}$                       **c**  $2\frac{2}{5}$                       **d**  $2\frac{3}{5}$

(37) The outlier increases the mean in figure .....

- a**                       **b**                       **c**                       **d** 

(38) The outlier decreases the mean in figure .....

- a**                       **b**                       **c**                       **d** 

(39) The additive inverse of  $(-10)$  is .....

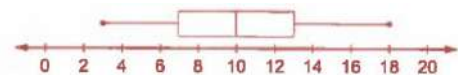
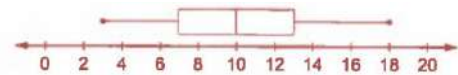
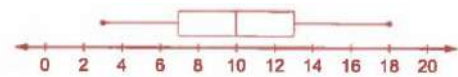
- a** 0                      **b** 1                      **c** 10                      **d** -10

(40) The number ..... is the additive inverse of itself.

- a** 1                      **b** 2                      **c** 0                      **d** -1



- (41) The GCF of the numbers 2 and 8 is .....
- a 0                      b 1                      c 2                      d 8
- (42) The LCM of the numbers 4 and 20 is .....
- a 0                      b 1                      c 4                      d 20
- (43) The greatest solution of the inequality:  $x \leq -1$  is .....
- a 0                      b 1                      c -1                      d 2
- (44)  $-2 > \dots$
- a -1                      b -2                      c -3                      d 0
- (45) The mode of the values: 5, 2, 5, 3, 5, 4 is .....
- a 2                      b 3                      c 4                      d 5
- (46) The smallest natural number is .....
- a 0                      b 1                      c 2                      d -1
- (47) The mean of values = their sum ... their number.
- a +                      b -                      c  $\times$                       d  $\div$
- (48) Which of the following is an algebraic expression? .....
- a  $2 + 5 \div 3$                       b  $5^2 + 4$                       c  $5x - 7$                       d  $3^3 - 8$
- (49)  $7 \times (3 + 5) = 21 + \dots$
- a 7                      b 3                      c 5                      d 35
- (50) The median in the opposite box plot is .....
- a 3                      b 7                      c 10                      d 18
- (51) The Q1 in the opposite box plot is .....
- a 3                      b 7                      c 10                      d 18
- (52) The Q3 in the opposite box plot is .....
- a 3                      b 10                      c 13                      d 18
- (53) The ordered pair ( 5 , ... ) satisfies the equation  $y = 2x - 1$
- a 2                      b 5                      c 9                      d 11
- (54) The number of integers that lies between - 2 and 2 is .....
- a 1                      b 2                      c 3                      d 4



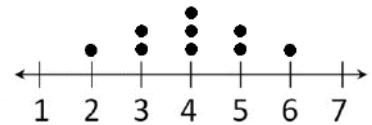


- (55)  $3^2 = \dots\dots$   
 (a) 0 (b) 1 (c) 6 (d) 9
- (56) The integer that comes just after  $(-5)$  is  $\dots\dots\dots$   
 (a)  $-1$  (b)  $-4$  (c)  $-6$  (d)  $-7$
- (57)  $\dots\dots\dots$  is divisible by 2, 5 and 10.  
 (a) 205 (b) 300 (c) 148 (d) 25
- (58) All  $\dots\dots\dots$  numbers are divisible by 2.  
 (a) odd (b) even (c) prime (d) composite
- (59) The number  $\dots\dots\dots$  is divisible by 3.  
 (a) 231 (b) 329 (c) 133 (d) 566



<b>Complete</b>
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(1) From the opposite dot plot: The mode is  $\dots\dots\dots$



(2) If  $x + 20 = 24$ , then  $\frac{1}{2}x = \dots\dots\dots$

(3) The range of the values: 15, 20, 31, 7, 17 and 37 is  $\dots\dots\dots$

(4)  $4 + |-4| = \dots\dots\dots$

(5) The algebraic expression that represent (twice of the number  $x$ ) is  $\dots\dots\dots$

(6) The independent variable in the equation:  $m = 2n + 4$  is  $\dots\dots\dots$

(7)  $(6, \dots\dots)$  satisfies the equation:  $y = \frac{1}{2}x + 3$ .

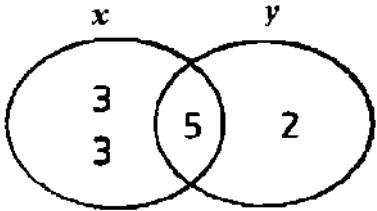
(8) In the opposite dot plot: The outlier is  $\dots\dots\dots$



(9)  $7(3 + 4) = \dots\dots + 28$

(10)  $\dots\dots$  is a common factor of all numbers.

(11) The  $\dots\dots\dots$  has no gaps between bars.

- (12) If the mean of 3 values is 7, then their sum = .....
- (13) The equation that represents: (subtract 5 from  $x$  equals 3) is .....
- (14) From the opposite figure:  
 (a) The GCF = .....  
 (b) The LCM = .....  
 (c)  $x$  = .....  
 (d)  $y$  = .....
- 
- (15) The constant in the expression  $(3k + 2m + 4)$  is .....
- (16) The dependent in the relation  $(y = 3x - 4)$  is .....
- (17) The number of like terms in the expression  $(2b + 3 - 3a + 4b)$  is .....
- (18) The smallest non-negative integer is .....
- (19) The smallest positive integer is .....
- (20) The greatest negative integer is .....
- (21) The greatest non-positive integer is .....
- (22) The mean of the values: 2, 4, 6, 5 and 3 is .....
- (23) The number 2,450 is divisible by ....., ..... and .....
- (24) The number whose prime factors (2, 3, 5) is .....
- (25)  $7 \times 7 \times 7 = 7^{\dots}$
- (26) The algebraic expression  $(5x + 2y - 3)$  has ..... terms
- (27) The number 315 is divisible by ..... and .....
- (28) The opposite of  $\frac{3}{7}$  is .....
- (29) If:  $3m = 12$ , then  $m + 5 =$  .....
- (30) If  $k + 1 = 5$ , then  $k - 2 =$  .....
- (31) The equation that represent ( $t$  equals 4 increased by  $k$ ) is .....
- (32)  $3\frac{1}{9} + 1\frac{8}{9} =$  .....

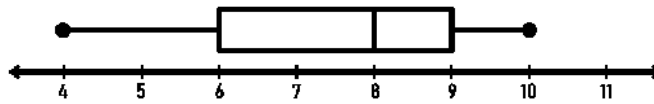


(33) If the ordered pair (2, a) satisfies the relation:  $y = 2x + 1$ , then a = .....



**Essay Problems**

Using the following box plot, complete:



- (1)
- |                                      |                                      |
|--------------------------------------|--------------------------------------|
| (a) The minimum value is .....       | (d) The upper quartile (Q3) is ..... |
| (b) The median is .....              | (e) The maximum value is .....       |
| (c) The lower quartile (Q1) is ..... | (f) The range = .....                |

Find the value of the expression:  $3 \times 5 - 2m$ , where  $m = 6$

(2) .....  
.....

Write an equation using the variables  $x$  and  $y$  (where  $x$  is the independent) that represents "multiply by 8 then add 3", substitute  $x = \frac{1}{2}$ .

(3) .....  
.....

Solve the following equations:

- (4)
- |               |                    |
|---------------|--------------------|
| (a) $5x = 20$ | (b) $7 + y = 17.8$ |
| .....         | .....              |
| .....         | .....              |

Arrange in a descending order:  $-8, |-7|, 2, 0, -5$

(5) The order is: ....., ....., ....., .....

Write four rational numbers lying between 3.7 and 3.8

(6) ..... / ..... / ..... / .....

From the following data, find: mean, median, mode, range and outlier.  
 $5, 22, 5, 5, 1$  and  $4$

- (7)
- |                    |                     |
|--------------------|---------------------|
| The mean = .....   | The mode = .....    |
| The median = ..... | The outlier = ..... |
| The range = .....  |                     |

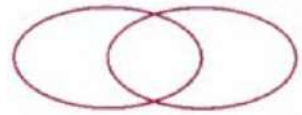
(8) If the mean of (5,  $x$  and 7) is 5, then  $x =$  .....



Find the GCF and the LCM of 6 and 9 using Venn diagram

(9)

.....  
 .....  
 .....



Draw the box plot for the following data: 2, 5, 3, 4, 0, 10, 1

(10)

.....  
 .....



From the opposite table:

(11)

The range = .....

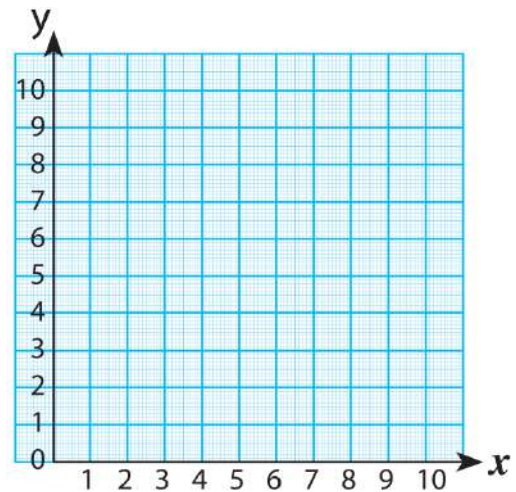
The 1/4 of the values are more than the number .....

min	Q1	median	Q3	max
60	75	95	105	120

Complete the following table using the relation  $(y = 2x + 1)$  and represent it graphically.

(12)

$x$	1	2	3
$y$			



The following table shows the daily wages of 200 workers of a factory.

(13)

Sets	Frequency
120 – 129	20
130 – 139	30
140 – 149	60
150 – 159	50
160 – 169	40

Draw the histogram of this distribution.

