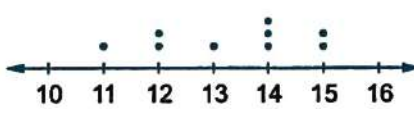


## Choose the correct answer

- (1) All of the following are the solutions of the inequality  $x > 3$  except \_\_\_\_\_  
 A. -1                                      B. 5                                      C. 9                                      D. 11
- (2) The coefficient in the algebraic expression :  $7x + 4$  is \_\_\_\_\_  
 A. 3                                      B. 4                                      C. 7                                      D. x
- (3) The horizontal axis includes numerical periods in the \_\_\_\_\_  
 A. bar graph.                              B. double bar graph.                              C. histogram.                              D. dot plot.
- (4)  $6^2 =$  \_\_\_\_\_  
 A.  $6 \times 2$                                       B.  $2^6$                                       C.  $6 \times 6$                                       D. 12
- (5) The independent variable in the equation :  $y = 2x + 5$  is \_\_\_\_\_  
 A. x                                      B. 2                                      C. 5                                      D. y
- (6) The lower quartile for the set of data : 42 , 35 , 63 , 7 , 28 , 21 and 14 is \_\_\_\_\_  
 A. 14                                      B. 28                                      C. 42                                      D. 63
- (7) The median of the values : 10 , 6 , 4 , 17 and 8 is \_\_\_\_\_  
 A. 4                                      B. 6                                      C. 8                                      D. 10
- (8) The number of terms of the expression :  $5x + 3 + m$  is \_\_\_\_\_  
 A. 2                                      B. 3                                      C. 4                                      D. 5
- (9) The algebraic expression of "divide n by 5 , then add 3" is \_\_\_\_\_  
 A.  $5n + 3$                                       B.  $\frac{n}{5} + 3$                                       C.  $3n + 5$                                       D.  $\frac{n}{3} + 5$
- (10)  $9x(7 + 6) = 9x7 + 9x$  \_\_\_\_\_  
 A. 5                                      B. 6                                      C. 7                                      D. 9
- (11) The L.C.M of the two numbers 18 and 12 is \_\_\_\_\_  
 A. 18                                      B. 20                                      C. 30                                      D. 36
- (12) The opposite figure represents the \_\_\_\_\_  
 A. histogram.                              B. box plot.  
 C. dot plot.                                      D. bar graph.
- 
- (13) In the equation :  $y = x + 4$  , the dependent variable is \_\_\_\_\_  
 A. y                                      B. 3                                      C. x                                      D. 4
- (14) The number 2.71 belongs to the set of \_\_\_\_\_ numbers.  
 A. counting                                      B. natural                                      C. integer                                      D. rational

- (15) The opposite of  $(-12)$  is \_\_\_\_\_  
A.  $-1$                       B.  $2$                       C.  $12$                       D.  $-12$
- (16) The mode of the values :  $9, 3, 2, 8, 3, 7$  and  $3$  is \_\_\_\_\_  
A.  $2$                       B.  $7$                       C.  $3$                       D.  $5$
- (17)  $1\frac{3}{5} + 2\frac{1}{5} =$  \_\_\_\_\_  
A.  $3\frac{4}{5}$                       B.  $3\frac{4}{10}$                       C.  $1\frac{2}{5}$                       D.  $1\frac{1}{10}$
- (18) The range of the set of values :  $6, 5, 9, 4, 11, 3$  and  $7$  is \_\_\_\_\_  
A.  $3$                       B.  $6$                       C.  $9$                       D.  $8$
- (19) The mean of the set of values :  $3, 8, 7$  and  $2$  is \_\_\_\_\_  
A.  $4$                       B.  $7$                       C.  $8$                       D.  $5$
- (20) \* The number \_\_\_\_\_ is divisible by  $2$  and  $3$   
A.  $111$                       B.  $552$                       C.  $11$                       D.  $101$
- (21) The value of the algebraic expression :  $3a + 5$  for  $a = 4$  is \_\_\_\_\_  
A.  $7$                       B.  $17$                       C.  $15$                       D.  $10$
- (22) In the equation :  $x = 4y + 3$ , the dependent variable is \_\_\_\_\_  
A.  $3$                       B.  $4$                       C.  $y$                       D.  $x$
- (23) The outlier of the following data set :  $90, 80, 85, 87, 3$  and  $91$  is \_\_\_\_\_  
A.  $7$                       B.  $80$                       C.  $3$                       D.  $90$
- (24) \_\_\_\_\_  $(5 + 3) = 35 + 21$   
A.  $8$                       B.  $4$                       C.  $6$                       D.  $7$
- (25) The L.C.M of  $5$  and  $7$  is \_\_\_\_\_  
A.  $14$                       B.  $1$                       C.  $7$                       D.  $35$
- (26) The algebraic expression of "the product of  $7$  and  $x$  added to  $3$ " is written as \_\_\_\_\_  
A.  $7 + 3x$                       B.  $7x + 3$                       C.  $7 \div 3x$                       D.  $7x - 3$
- (27) If  $x + 3 = 5$ , then  $4x =$  \_\_\_\_\_  
A.  $0$                       B.  $8$                       C.  $10$                       D.  $2$
- (28) In the algebraic expression :  $x + 4$ , the constant is \_\_\_\_\_  
A.  $4$                       B.  $2$                       C.  $3$                       D.  $1$

- (29) The greatest non-positive integer is \_\_\_\_\_  
A. 0                                      B. -1                                      C. 1                                      D. 100
- (30)  $2^3 =$  \_\_\_\_\_  
A.  $2 \times 2$                                       B.  $3 \times 3$                                       C.  $3^2$                                       D. 8
- (31) If Ali has  $x$  L.E and his father gave him 5 L.E, then he has \_\_\_\_\_ L.E.  
A.  $x + 5$                                       B.  $5 - x$                                       C.  $5x$                                       D.  $\frac{x}{5}$
- (32) Which of the following is a prime number?  
A. 6                                      B. 7                                      C. 8                                      D. 10
- (33)  $6(\text{_____} + 2) = 48$   
A. 2                                      B. 40                                      C. 6                                      D. 48
- (34) If  $5 \times 5 \times 5 \times 5 = 5^n$ , then  $n =$  \_\_\_\_\_  
A. 5                                      B. 4                                      C. 1                                      D. 0
- (35) If  $y = 2x + 1$  and  $x = 2$ , then  $y =$  \_\_\_\_\_  
A. 2                                      B. 1                                      C. 4                                      D. 5
- (36)  $-4$  \_\_\_\_\_  $-1$   
A.  $<$                                       B.  $>$                                       C.  $\geq$                                       D.  $=$
- (37) The first operation you perform in the expression:  $10 \div 5 + (3 - 1)^2$  is the \_\_\_\_\_  
A. addition.                                      B. subtraction.                                      C. exponent.                                      D. division.
- (38) The number of terms of the expression:  $5x + 3y - 1$  is \_\_\_\_\_  
A. 3                                      B. 5                                      C. -1                                      D. 1
- (39) If the mean of: 8, 6,  $x$  and 5 is 5, then  $x =$  \_\_\_\_\_  
A. 0                                      B. 1                                      C. 6                                      D. 3

### Essay Problems

- (1) Find three rational numbers lying between  $\frac{1}{7}$  and  $\frac{5}{7}$ .  
\_\_\_\_\_
- (2) Write the algebraic expression to find the area of the opposite figure:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 
- (3) Arrange in an ascending order: 2.6, 1.3, -2.5, 0, -1.7  
The order is: .....

\* The Food Bank needs to distribute 116 food boxes.

(4) Is it possible to distribute the boxes equally among 4 villages ?  
\_\_\_\_\_

Solve the following equations:

(5) (a)  $5x = 15$

(b)  $y - 7 = 3$

(c)  $y + 5 = 15.7$

.....  
.....

.....  
.....

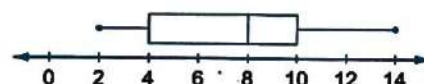
.....  
.....

Evaluate the expression:  $5^2 + 8 \div (6 - 2)$

(6)

.....  
.....

Use the following box plot to complete the following :



(7) Min. = \_\_\_\_\_

Q1 = \_\_\_\_\_

Median = \_\_\_\_\_

Q3 = \_\_\_\_\_

Max. = \_\_\_\_\_

(8) If the median of  $(k+1, k+2.5, k+3)$  is 12.7, find the value of k. ....

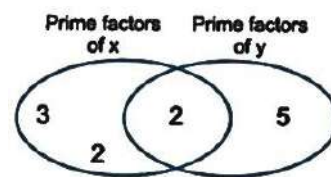
From the opposite Venn diagram.

Complete :

(9) a. The two numbers are \_\_\_\_\_ and \_\_\_\_\_

b. The G.C.F of the two numbers = \_\_\_\_\_

c. The L.C.M of the two numbers = \_\_\_\_\_

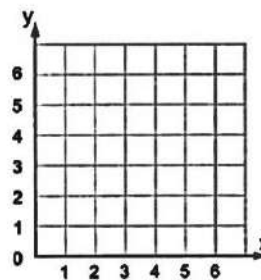


Complete the following table, then represent it graphically.

The equation :  $y = x + 1$

(10)

x	0	2	3
y	_____	_____	_____
(x, y)	(0, _____)	(2, _____)	(3, _____)



From the opposite histogram :

The number of students who obtained 20 marks or more is \_\_\_\_\_

(11)

- A. 9
- B. 6
- C. 2
- D. 3

