

نماذج  
إمتحانات

الترم  
الأول

# المعتمد

محمود الخوط

6

الصف السادس

MATH

YOU MUST ADD VALUE.

2024

ملحق  
بالإجابات

نسخة  
مجانية

يرجى مراعاة حقوق صاحب المحتوى عند النشر

**Question 1 : Choose the correct answer :**

- 1 The additive inverse of the number  $-20.5$  is .....  
 (a) 20                      (b) 0                      (c)  $|-20.5|$                       (d)  $-20.5$
- 2 An integer lying between 6 and  $-6$  is .....  
 (a)  $-6$                       (b)  $-1$                       (c)  $-7$                       (d) all of them
- 3 The product of the multiplicative identity and the greatest non-positive number is .....  
 (a) 1                      (b) 0                      (c) 2                      (d)  $-1$
- 4 The mean of 8 , 7 , 1 , 4 is .....  
 (a) 5                      (b) 5.5                      (c) 7                      (d) 0
- 5 The greatest integer satisfies the inequality  $m < 2$  is .....  
 (a)  $-3$                       (b) 100                      (c) 2                      (d) 1
- 6 If :  $x + 1 = 7$  ,then the value of half  $x$  is .....  
 (a) 6                      (b) 4                      (c) 8                      (d) 3
- 7  $360 \div 24 =$  .....  
 (a) 15                      (b) 12                      (c) 240                      (d) 36

**Question 2 : Complete the following :**

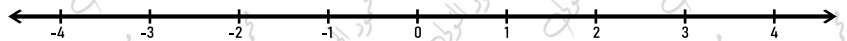
- 1  $5 \times 5 \times 5 \times 5 = 5$ .....
- 2 The lower quartile for the values ( 4 , 6 , 4 , 7 , 20 ) is .....
- 3 LCM for 12 and 6 is .....
- 4 The algebraic expression  $5 + 4x - 2n - 3c$  is formed from .....terms.
- 5  $3240 \div 8 =$  .....
- 6 The opposite of  $\frac{5}{9}$  is .....
- 7 GCF of 5 and 11 is .....
- 8 If  $6m = 12$  ,then  $m + 5 =$  .....

**Question 3 : Choose the correct answer :**

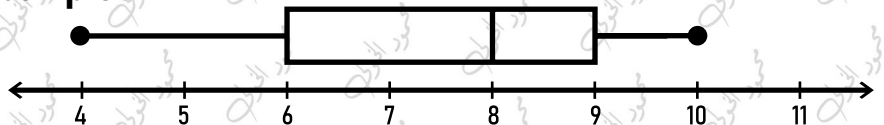
- 1 The smallest odd prime number is .....
  - a 0
  - b 1
  - c 2
  - d 3
- 2  $6^2 =$  .....
  - a 12
  - b 6
  - c 36
  - d 8
- 3 If  $\frac{a}{b}$  is a rational number ,then b not equal .....
  - a a
  - b 0
  - c 1
  - d negative number
- 4 The like terms in the expression :  $x + 2 + y + 5$  are .....
  - a x,y
  - b x,2
  - c 5,2
  - d 2,y
- 5 The solution of the equation :  $3x - 5 = 10$  is .....
  - a 5
  - b 3
  - c 10
  - d x
- 6 An integer just after -5 is .....
  - a 5
  - b -4
  - c -6
  - d -5
- 7 The first operation you preform in the expression  $4 - (8 + 5^3) \times 20$  is .....
  - a multiply
  - b add
  - c exponent
  - d divide

**Question 4 : Answer the following :**

- 1 Find the result of :  $(3 \times 5 - 2m) + 10$  ,when  $m = 6$   
.....
- 2 A school with 816 students . they will be distributed equally into 24 classes . what is the number of students in each class ?  
.....
- 3 Put this numbers on the number line :  $2.9$  ,  $-1\frac{2}{7}$  ,  $-3.4$  ,  $0.8$



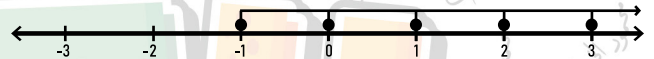
- 4 Answer from the opposite box plot



- 1- The median is .....
- 2- The lower quartile is .....
- 3- The upper quartile is .....
- 4- The minimum value is.....
- 5- The maximum value is .....

**Question 1 : Choose the correct answer :**

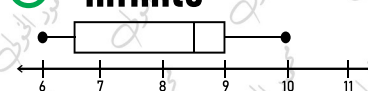
- 1 The mean = the sum of values .....the number of this values  
 (a) + (b) - (c)  $\times$  (d)  $\div$
  - 2 The best subset for the number 0 is .....  
 (a) counting numbers (b) integers (c) natural numbers (d) rational numbers
  - 3 If  $|x| = 6$ , then  $x =$  .....  
 (a) 12 (b) 6 (c) -6 (d) both b,c
  - 4  $-100$     $0$   
 (a) < (b) > (c) = (d)  $\geq$
  - 5 The pervious of the number -8 is .....  
 (a) -8 (b) -7 (c) -9 (d) 0
  - 6 Which of the following is not a numerical expression ?  
 (a)  $2 + 4 - 7^4$  (b)  $(15 + 3) \times 2$  (c)  $7(3 - 2)$  (d)  $4x + 5$
  - 7 .....+.....=  $6(2 + 3)$   
 (a) 12,3 (b) 6,5 (c) 12,18 (d) 1,2
- The inequality that represented by the opposite number line in the set of integers is...
- 8 (a)  $x > -1$  (b)  $x < -1$  (c)  $x \geq -1$  (d)  $x \leq -1$


**Question 2 : Complete the following :**

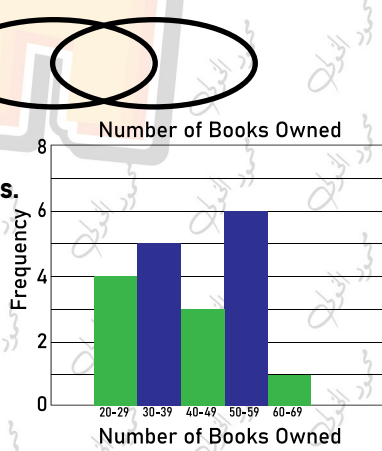
- 1 The median of the following data which represented by the dot plot is.....
- 2 The smallest non-negative integer is.....
- 3 In the equation :  $4n + 7 = h$  , the dependent variable is.....
- 4 The number whose prime factors are 2,2,3,3 is.....
- 5  $-5\frac{2}{3}$  in the form  $\frac{a}{b}$  is.....
- 6 The algebraic expression which represent : the sum of triple x and the number 6 is....
- 7 The mean of the values ( 12 , 6 , 7 , 5 , 5 ) is ....
- 8 -1.32 is.....to the set of integers .



**Question 3 : Choose the correct answer :**

- 1  $(2.5 \div 0.5)^2 + 10 - 4 = \dots\dots\dots$ 
  - a 31
  - b 16
  - c 35
  - d 10.5
- 2 Each number in the set of counting is called .....
  - a set
  - b integer
  - c subset
  - d element
- 3  $8 + 24 = 8 ( 1 + \dots\dots\dots )$ 
  - a 8
  - b 23
  - c 8
  - d 3
- 4  $|-6| + |5| = \dots\dots\dots$ 
  - a -11
  - b 11
  - c 1
  - d -1
- 5 If  $y = 2 + 3x$  , then ( ..... , 11 ) satisfies the equation .
  - a 0
  - b 35
  - c 3
  - d 33
- 6 The number of rational numbers lying between 5 and its opposite is .....
  - a 10
  - b 5
  - c 0
  - d infinite
- 7 From the opposite box plot : the upper quartile is .....
 
  - a 8.5
  - b 6.5
  - c 10
  - d 9

**Question 4 : Answer the following :**

- 1 Arrange the following values in ascending order :  
 -10 , - 18 , 23 , 0 , 190 , 0.25  
 .....
- 2 Find GCF and LCM for 12 and 18 by using venn diagram  
 .....
- 3 The opposite histogram shows number of books Owned by the students in your class.
  - A- How many students own less than 40 books.....
  - B- How many students own more than 39 books.....
  - C- Which interval has the least number of student.....
  - D- Which interval has the highest number of students.....
- 4 If the ticket of entering a car park is 30 pounds and 9 pounds for each hour you spend. What is the cost of spending 3 hours in the park ? " Write the algebraic expression "  
 .....

**Question 1 : Choose the correct answer :**

- 1 Which measure of central tendency the best if their an extreme value ( outlier ) .  
 (a) median      (b) mean      (c) both a,b      (d) range
- 2 The set of natural numbers ..... The set of rational numbers  
 (a) belong      (b) not belong      (c) subset      (d) not subset
- 3 Which data is a descriptive data ?  
 (a) weight      (b) favorite color      (c) age      (d) length
- 4 If  $x \leq -5$  ,then the largest integer satisfies the inequality is .....  
 (a) 5      (b) -4      (c) -5      (d) 0
- 5 The additive inverse of the number  $|-10|$  is .....  
 (a) -10      (b) 10      (c) 0      (d)  $|-10|$
- 6 The GCF of 5 and 15 is .....  
 (a) 5      (b) 15      (c) 1      (d) 0
- 7 The number of terms of the expression  $2n - 6 + 15m + 14x + 2$  is .....terms  
 (a) 7      (b) 6      (c) 5      (d) 4

**Question 2 : Complete the following :**

- 1  $m + m = 6$  , then  $m =$  .....
- 2 The LCM of 10 and 8 is .....
- 3 The median of the values  $a + 1$  ,  $a + 2$  ,  $a + 3$  ,  $a + 4$  and  $a + 5$  is 23 then  $a =$  .....
- 4 6 increased by b equal t ,then the equation is .....
- 5 In the algebraic expression  $e + 2b + 6$  ,the constant is .....
- 6 The .....of a number is the distance between the number and zero .
- 7 In  $5h + 20 = f$  , the independent variable is .....
- 8 Number of like terms in the expression  $2b + 5 - 0.2n + 5b$  is .....terms .

**Question 3 : Choose the correct answer :**

- 1 The area of the square whose side length 5 cm in exponential form is .....
  - a 20
  - b 25
  - c  $5^2$
  - d  $2^5$
- 2  $-|-2| > \dots\dots\dots$ 
  - a  $|-2|$
  - b 0
  - c -2
  - d -100
- 3 All of the following numbers are rational except .....
  - a 0
  - b  $\frac{7}{5-2}$
  - c -45.23
  - d  $\frac{6}{2-2}$
- 4 In the opposite venn diagram ,the GCF is .....
  - a 5
  - b 1
  - c 30
  - d 10
- 5 The mean of the dataset ( 6 , 12 , 2 , 4 ) is .....
  - a 10
  - b 24
  - c 5
  - d 6
- 6 The best subset for the number -2.6 is .....
  - a counting numbers
  - b integers
  - c natural numbers
  - d rational numbers
- 7 The smallest natural integer is .....
  - a 0
  - b -1
  - c 1
  - d -100

**Question 4 : Answer the following :**

- 1 Draw a box plot for this set of data.  
ages of children taking math classes: 10, 8, 9, 7, 10, 12, 14, 14, 10, 16



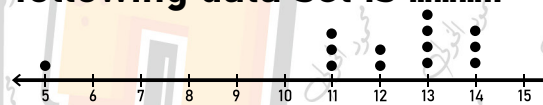
- 2 Masa bought some books for 34 LE each . What is the number of books can Masa buy with 612 LE ?  
.....
- 3 Write the equation use the variables x and y , x is the independent variable “ multiply by 6 and add 5 “ ,then substitute  $x = \frac{1}{2}$  to evaluate y .  
.....
- 4 Evaluate the expression :  $5x^2 + 8 \div (8 - 6) \div 2$  ,when  $x = 2$  .  
.....  
.....

**Question 1 : Choose the correct answer :**

- 1 A frequency its range 40 and the smallest value is 15 ,then the greatest value is .....  
 (a) 25                      (b) 40                      (c) 55                      (d) 30
- 2 The number whose all factors are 1,2,3,6 is .....  
 (a) 36                      (b) 24                      (c) 12                      (d) 6
- 3 The mean = ..... ÷ number of values  
 (a) median                      (b) range                      (c) sum of values                      (d) difference
- 4 In the expression :  $6x + 14 - b$  , the coefficient of the variable d is.....  
 (a) 6                      (b) 14                      (c) 1                      (d) -1
- 5 The smallest positive integer is .....  
 (a) 0                      (b) 1                      (c) -1                      (d) 2
- 6 A number whose prime factors are 2 , 5 and 7 is .....  
 (a) 7                      (b) 10                      (c) 14                      (d) 70
- 7  $c \div 9 = 5$  ,then c is .....  
 (a) 45                      (b) 9                      (c) 4                      (d) 14

**Question 2 : Complete the following :**

- 1 The best measure of central tendency of the following data set is .....
- 2  $x > 5$  represent .....
- 3  $5(4 + 2) = \dots + 10$
- 4 The common factor of all numbers is .....
- 5 The value that lie outside most of the other values in a set of data called .....
- 6 .....question is a question that has only one answer.
- 7 ..... is a graph that has no gaps between bars .
- 8 .....is the middle value in a set of values after arranging it



**Question 3 : Choose the correct answer :**

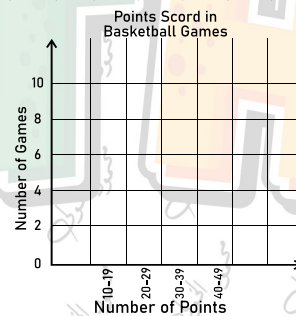
- 1 From the opposite table : about  $\frac{3}{4}$  of the data more than what number ?  
 (a) 8                      (b) 11                      (c) 14                      (d) 21
- 2  $2\frac{3}{7} + \frac{2}{5} = \dots$   
 (a)  $2\frac{5}{12}$                       (b)  $2\frac{29}{35}$                       (c)  $\frac{29}{35}$                       (d) 3
- 3 If  $-|x| = -10$  , then  $x = \dots$   
 (a) -10                      (b) 10                      (c) both a,b                      (d) 20
- 4 Integer that expresses the profit 100 LE is .....  
 (a) -1                      (b) 200                      (c) -100                      (d) 100
- 5 The range of the values ( 30 , 47 , 20 , 17 , 25 ) is .....  
 (a) 17                      (b) 30                      (c) 20                      (d) 47
- 6 Your weight is .....data .  
 (a) numerical                      (b) categorical                      (c) descriptive                      (d) all of them
- 7 The prime factors of 10 are .....  
 (a) 1,10                      (b) 2,8                      (c) 2,5                      (d) 3,7

min	Q <sub>1</sub>	median	Q <sub>3</sub>	max
8	11	14	21	24

**Question 4 : Answer the following :**

- 1 Complete the table ,then Draw a histogram to represent each set of data.  
 number of points scored in each basketball game : 28, 16, 38, 44, 21, 38, 35, 48, 33, 29, 37, 39, 18, 38, 42, 37, 32

INTERVEL	FREQUENCY
10 - 19	.....
20 - 29	.....
.....	.....
.....	.....



- 2 Complete the following table according to thr equation :  $y = 3x + 2$

X	0	2	4	6
Y	...	...	...	...

- 3 Show that the following expressions are equivalent or not by using substituting  $2(2t + 9)$  ,  $4t + 18$   
 .....
- 4 Rahma bought 56 meters of cloth with 6,944 LE , find the price of each meter ?  
 .....

Model (5)

Question 1 : Choose the correct answer :

- 1 The mean of 5 , 8 , 6 , x is 5 , then x = .....  
 (a) 0                      (b) 1                      (c) 2                      (d) 3
- 2 The number .....neither positive nor negative  
 (a) 0                      (b) 1                      (c) -1                      (d) 0.5
- 3 The natural numbers .....the counting numbers .  
 (a) belong                      (b) not belong                      (c) subset                      (d) not subset
- 4  $5m + 8 \leq 12$  is .....  
 (a) Algebraic term                      (b) equation                      (c) expression                      (d) inequality
- 5 To find the value of  $5 \times 4 \div 10 - (7 + 8)$  , we must do .....first .  
 (a) subtraction                      (b) addition                      (c) multiplication                      (d) division
- 6  $|-12.25| =$  .....  
 (a) -12                      (b) 12                      (c) -12.25                      (d) 12.25
- 7 Subtract 2.5 from m , then multiply the result by 2 is .....  
 (a)  $(2.5 - m) \times 2$                       (b)  $2.5 - m \times 2$                       (c)  $(m - 2.5) \times 2$                       (d)  $m - 2.5 \times 2$

Question 2 : Complete the following :

- 1 The mode of the opposite data set is .....
- 2 If  $x + 20 = 26$  , then  $0.5x =$  .....
- 3  $15 \div 3 + 9 - 14 =$  .....
- 4 The range of the values : 14 , 5 , 14 , 70 , 63 , 20 , 12 is .....
- 5 The distance between 4 and  $|-4|$  is .....
- 6 Double of the number b is .....
- 7 The variable in the equation :  $10 + 2m - 2.3 = 40$  is .....
- 8 ( 8 , ..... ) satisfies the rule :  $y = \frac{1}{2}x + 2$



**Question 3 : Choose the correct answer :**

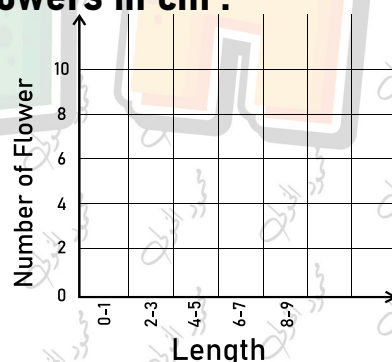
- 1 .....is a descriptive data .
  - a weight
  - b age
  - c Tall
  - d your father name
- 2 The equation is a mathematical expression contains .....between two mathematical sentences.
  - a >
  - b <
  - c =
  - d ≥
- 3  $-2\frac{5}{9}$    $-5\frac{7}{9}$ 
  - a >
  - b <
  - c =
  - d ≥
- 4 The outlier for the set of data : 105 , 102 , 16 , 114 , 116 , 110 is .....
  - a 114
  - b 16
  - c 100
  - d 50
- 5 One is the only common factor of.....numbers
  - a relatively prime
  - b composite
  - c even
  - d odd
- 6 The integers is .....numbers .
  - a counting
  - b natural
  - c rational
  - d all of them
- 7  $-(-5) =$  .....
  - a -5
  - b 5
  - c 0
  - d 10

**Question 4 : Answer the following :**

- 1 Find the mean , median , mode , range and outlier for the following data :  
( 12 , 5 , 3 , 3 , 4 , 7 , 8 )

- 2 The following table represents lengths of flowers in cm :  
Represent this data by histogram.

Length	0-1	2-3	4-5	6-7	8-9
Number of Flower	5	10	8	1	2



- 3 Malak need 30 to by a CD . She doesn't have enough money to buy it. Write 4 possible amounts of money that Malak has.  
.....  
.....
- 4 Find four rational numbers lying between : 2.4 and 2.5  
.....  
.....

# Mr Mahmoud Elkholy

بنعمل كل ده علشان تغلط وتتعلم ، لازم تبقي عارف إن الغلط بيعلم ويبثبت المعلومة  
السؤال اللي بتحلّه غلط أهم بكتير من السؤال اللي بتحلّه صح  
بالتوفيق يا حبايبي..

أخوك : محمود الخولي.



MathMahmoudElkholy



MathMahmoudElkholy



MathMahmoudElkholy



نموذج الإجابات

# المعتمد

محمود الخولي

6

الصف السادس

MATH

YOU MUST ADD VALUE.

Model Answer (1)

Question 1 : Choose the correct answer :

- 1 The additive inverse of the number  $-20.5$  is .....  
 (a) 20                      (b) 0                      (c)  **$|-20.5|$**                       (d)  $-20.5$
- 2 An integer lying between 6 and  $-6$  is .....  
 (a)  $-6$                       (b)  **$-1$**                       (c)  $-7$                       (d) all of them
- 3 The product of the multiplicative identity and the greatest non-positive number is ....  
 (a) 1                      (b) **0**                      (c) 2                      (d)  $-1$
- 4 The mean of 8 , 7 , 1 , 4 is .....  
 (a) **5**                      (b) 5.5                      (c) 7                      (d) 0
- 5 The greatest integer satisfies the inequality  $m < 2$  is .....  
 (a)  $-3$                       (b) 100                      (c) 2                      (d) **1**
- 6 If :  $x + 1 = 7$  , then the value of half  $x$  is .....  
 (a) 6                      (b) 4                      (c) 8                      (d) **3**
- 7  $360 \div 24 =$  .....  
 (a) **15**                      (b) 12                      (c) 240                      (d) 36

Question 2 : Complete the following :

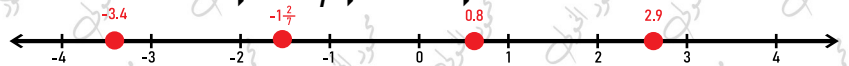
- 1  $5 \times 5 \times 5 \times 5 = 5^4$
- 2 The lower quartile for the values ( 4 , 6 , 4 , 7 , 20 ) is **4**
- 3 LCM for 12 and 6 is **12**
- 4 The algebraic expression  $5 + 4x - 2n - 3c$  is formed from **4** terms.
- 5  $3240 \div 8 =$  **405**
- 6 The opposite of  $\frac{5}{9}$  is  **$-\frac{5}{9}$**
- 7 GCF of 5 and 11 is **1**
- 8 If  $6m = 12$  , then  $m + 5 =$  **7**

### Question 3 : Choose the correct answer :

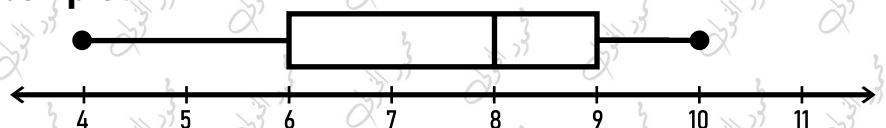
- 1 The smallest odd prime number is .....
  - a 0
  - b 1
  - c 2
  - d 3
- 2  $6^2 =$  .....
  - a 12
  - b 6
  - c 36
  - d 8
- 3 If  $\frac{a}{b}$  is a rational number ,then b not equal .....
  - a a
  - b 0
  - c 1
  - d negative number
- 4 The like terms in the expression :  $x + 2 + y + 5$  are .....
  - a x,y
  - b x,2
  - c 5,2
  - d 2,y
- 5 The solution of the equation :  $3x - 5 = 10$  is .....
  - a 5
  - b 3
  - c 10
  - d x
- 6 An integer just after -5 is .....
  - a 5
  - b -4
  - c -6
  - d -5
- 7 The first operation you preform in the expression  $4 - (8 + 5^3) \times 20$  is .....
  - a multiply
  - b add
  - c exponent
  - d divide

### Question 4 : Answer the following :

- 1 Find the result of :  $(3 \times 5 - 2m) + 10$  ,when  $m = 6$   
 .....  $(3 \times 5 - 2 \times 6) + 10 = 13$  .....
- 2 A school with 816 students . they will be distributed equally into 24 classes .  
 what is the number of students in each class ?  
 .....  $816 \div 24 = 34$  students .....
- 3 Put this numbers on the number line :  $2.9$  ,  $-1\frac{2}{7}$  ,  $-3.4$  ,  $0.8$



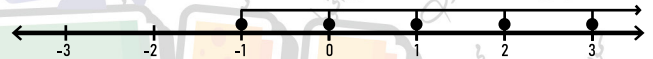
- 4 Answer from the opposite box plot



- 1- The median is 8
- 2- The lower quartile is 6
- 3- The upper quartile is 9
- 4- The minimum value is 4
- 5- The maximum value is 10

**Question 1 : Choose the correct answer :**

- 1 The mean = the sum of values .....the number of this values  
 (a) + (b) - (c) x (d)  $\div$
- 2 The best subset for the number 0 is .....  
 (a) counting numbers (b) integers (c) natural numbers (d) rational numbers
- 3 If  $|x| = 6$ , then  $x =$  .....  
 (a) 12 (b) 6 (c) -6 (d) both b,c
- 4  $-100$   0  
 (a) < (b) > (c) = (d)  $\geq$
- 5 The pervious of the number -8 is .....  
 (a) -8 (b) -7 (c) -9 (d) 0
- 6 Which of the following is not a numerical expression ?  
 (a)  $2 + 4 - 7^4$  (b)  $(15 + 3) \times 2$  (c)  $7(3 - 2)$  (d)  $4x + 5$
- 7 ..... + ..... =  $6(2 + 3)$   
 (a) 12,3 (b) 6,5 (c) 12,18 (d) 1,2
- 8 The inequality that represented by the opposite number line in the set of integers is .....  
 (a)  $x > -1$  (b)  $x < -1$  (c)  $x \geq -1$  (d)  $x \leq -1$

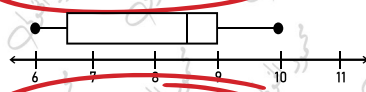

**Question 2 : Complete the following :**

- 1 The median of the following data which represented by the dot plot is 4
- 2 The smallest non-negative integer is 0
- 3 In the equation :  $4n + 7 = h$  , the dependent variable is h
- 4 The number whose prime factors are 2,2,3,3 is 36
- 5  $-5\frac{2}{3}$  in the form  $\frac{a}{b}$  is  $-\frac{17}{3}$
- 6 The algebraic expression which represent : the sum of triple x and the number 6 is  $3x + 6$
- 7 The mean of the values ( 12 , 6 , 7 , 5 , 5 ) is 7
- 8 -1.32 is not belong to the set of integers.



**Question 3 : Choose the correct answer :**

- 1  $(2.5 \div 0.5)^2 + 10 - 4 = \dots\dots\dots$   
 (a) **31** (b) 16 (c) 35 (d) 10.5
- 2 Each number in the set of counting is called .....  
 (a) set (b) integer (c) subset (d) **element**
- 3  $8 + 24 = 8 ( 1 + \dots\dots\dots )$   
 (a) 8 (b) 23 (c) 8 (d) **3**
- 4  $|-6| + |5| = \dots\dots\dots$   
 (a) -11 (b) **11** (c) 1 (d) -1
- 5 If  $y = 2 + 3x$  , then ( ..... , 11 ) satisfies the equation .  
 (a) 0 (b) 35 (c) **3** (d) 33
- 6 The number of rational numbers lying between 5 and its opposite is .....  
 (a) 10 (b) 5 (c) 0 (d) **infinite**
- 7 From the opposite box plot : the upper quartile is .....  
 (a) 8.5 (b) 6.5 (c) 10 (d) **9**



**Question 4 : Answer the following :**

- 1 Arrange the following values in ascending order :  
 -10 , - 18 , 23 , 0 , 190 , 0.25  
 ..... **-18 , -10 , 0 , 0.25 , 23 , 190** .....
- 2 Find GCF and LCM for 12 and 18 by using venn diagram  
 GCF =  $2 \times 3 = 6$   
 LCM =  $2 \times 2 \times 3 \times 3 = 36$
- 3 The opposite histogram shows number of books Owned by the students in your class.  
 A- How many students own less than 40 books **9**  
 B- How many students own more than 39 books **10**  
 C- Which interval has the least number of student **60-69**  
 D- Which interval has the highest number of students **50-59**
- 4 If the ticket of entering a car park is 30 pounds and 9 pounds for each hour you spend. What is the cost of spending 3 hours in the park ? " Write the algebraic expression "  
 ..... **the algebraic expression is  $9x + 30$**  .....  
 ..... **the cost is  $9 \times 3 + 30 = 57$  pounds** .....



**Question 1 : Choose the correct answer :**

- 1 Which measure of central tendency the best if their an extreme value ( outlier ) .  
 a median     b mean     c both a,b     d range
- 2 The set of natural numbers ..... The set of rational numbers  
 a belong     b not belong     c subset     d not subset
- 3 Which data is a descriptive data ?  
 a weight     b favorite color     c age     d length
- 4 If  $x \leq -5$  ,then the largest integer satisfies the inequality is .....  
 a 5     b -4     c -5     d 0
- 5 The additive inverse of the number  $|-10|$  is .....  
 a -10     b 10     c 0     d  $|-10|$
- 6 The GCF of 5 and 15 is .....  
 a 5     b 15     c 1     d 0
- 7 The number of terms of the expression  $2n - 6 + 15m + 14x + 2$  is .....terms  
 a 7     b 6     c 5     d 4

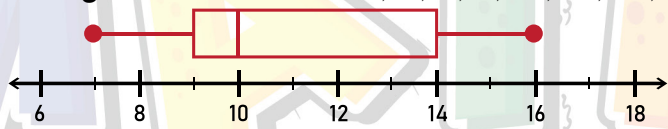
**Question 2 : Complete the following :**

- 1  $m + m = 6$  , then  $m =$
- 2 The LCM of 10 and 8 is
- 3 The median of the values  $a + 1$  ,  $a + 2$  ,  $a + 3$  ,  $a + 4$  and  $a + 5$  is 23 then  $a =$
- 4 6 increased by b equal t ,then the equation is
- 5 In the algebraic expression  $e + 2b + 6$  ,the constant is
- 6 The  of a number is the distance between the number and zero .
- 7 In  $5h + 20 = f$  , the independent variable is
- 8 Number of like terms in the expression  $2b + 5 - 0.2n + 5b$  is  terms .

**Question 3 : Choose the correct answer :**

- 1 The area of the square whose side length 5 cm in exponential form is .....  
 (a) 20                      (b) 25                      (c)  $5^2$                       (d)  $2^5$
- 2  $-|-2| > \dots\dots\dots$   
 (a)  $|-2|$                       (b) 0                      (c) -2                      (d) -100
- 3 All of the following numbers are rational except .....  
 (a) 0                      (b)  $\frac{7}{5-2}$                       (c) -45.23                      (d)  $\frac{6}{2-2}$
- 4 In the opposite venn diagram ,the GCF is .....  
 (a) 5                      (b) 1                      (c) 30                      (d) 10
- 5 The mean of the dataset ( 6 , 12 , 2 , 4 ) is .....  
 (a) 10                      (b) 24                      (c) 5                      (d) 6
- 6 The best subset for the number -2.6 is .....  
 (a) counting numbers                      (b) integers                      (c) natural numbers                      (d) rational numbers
- 7 The smallest natural integer is .....  
 (a) 0                      (b) -1                      (c) 1                      (d) -100

**Question 4 : Answer the following :**

- 1 Draw a box plot for this set of data.  
 ages of children taking math classes: 10, 8, 9, 7, 10, 12, 14, 14, 10, 16  

- 2 Masa bought some books for 34 LE each . What is the number of books can Masa buy with 612 LE ?  
 .....  $612 \div 34 = 18$  books .....
- 3 Write the equation use the variables x and y , x is the independent variable “ multiply by 6 and add 5 “ ,then substitute  $x = \frac{1}{2}$  to evaluate y .  
 ..... The equation is  $y = 6x + 5$  ..... , then  $x = 8$  .....
- 4 Evaluate the expression :  $5x^2 + 8 \div (8 - 6) \div 2$  ,when  $x = 2$  .  
 .....  $5 \times 2^2 + 8 \div (8 - 6) \div 2$  .....  
 .....  $= 5 \times 4 + 8 \div 2 \div 2$  .....  
 .....  $= 20 + 4 \div 2 = 20 + 2 = 22$  .....

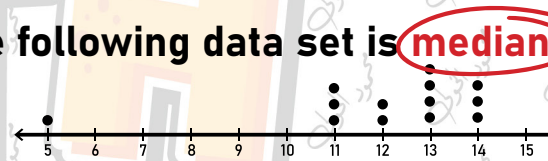
Model Answer (4)

Question 1 : Choose the correct answer :

- 1 A frequency its range 40 and the smallest value is 15 ,then the greatest value is .....  
 (a) 25                      (b) 40                      (c) 55                      (d) 30
- 2 The number whose all factors are 1,2,3,6 is .....  
 (a) 36                      (b) 24                      (c) 12                      (d) 6
- 3 The mean = ..... ÷ number of values  
 (a) median                      (b) range                      (c) sum of values                      (d) difference
- 4 In the expression :  $6x + 14 - b$  , the coefficient of the variable d is.....  
 (a) 6                      (b) 14                      (c) 1                      (d) -1
- 5 The smallest positive integer is .....  
 (a) 0                      (b) 1                      (c) -1                      (d) 2
- 6 A number whose prime factors are 2 , 5 and 7 is .....  
 (a) 7                      (b) 10                      (c) 14                      (d) 70
- 7  $c \div 9 = 5$  ,then c is .....  
 (a) 45                      (b) 9                      (c) 4                      (d) 14

Question 2 : Complete the following :

- 1 The best measure of central tendency of the following data set is **median**
- 2  $x > 5$  represent **inequality**
- 3  $5(4 + 2) = 20 + 10$
- 4 The common factor of all numbers is **1**
- 5 The value that lie outside most of the other values in a set of data called **outlier**
- 6 **non-statistical** question is a question that has only one answer.
- 7 **histogram** is a graph that has no gaps between bars .
- 8 **median** is the middle value in a set of values after arranging it



**Question 3 : Choose the correct answer :**

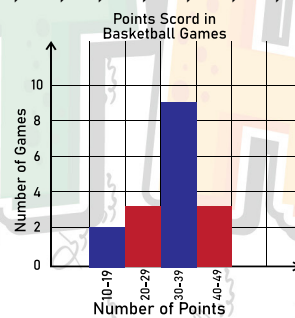
- 1 From the opposite table : about  $\frac{3}{4}$  of the data more than what number ?  
 a 8      **b 11**      c 14      d 21
- 2  $2\frac{3}{7} + \frac{2}{5} = \dots$   
 a  $2\frac{5}{12}$       **b  $2\frac{29}{35}$**       c  $\frac{29}{35}$       d 3
- 3 If  $-|x| = -10$ , then  $x = \dots$   
 a -10      b 10      **c both a,b**      d 20
- 4 Integer that expresses the profit 100 LE is .....  
 a -1      b 200      c -100      **d 100**
- 5 The range of the values ( 30 , 47 , 20 , 17 , 25 ) is .....  
 a 17      **b 30**      c 20      d 47
- 6 Your weight is .....data .  
**a numerical**      b categorical      c descriptive      d all of them
- 7 The prime factors of 10 are .....  
 a 1,10      b 2,8      **c 2,5**      d 3,7

min	Q <sub>1</sub>	median	Q <sub>3</sub>	max
8	11	14	21	24

**Question 4 : Answer the following :**

- 1 Complete the table ,then Draw a histogram to represent each set of data.  
 number of points scored in each basketball game : 28, 16, 38, 44, 21, 38, 35, 48, 33, 29, 37, 39, 18, 38, 42, 37, 32

INTERVEL	FREQUENCY
10 - 19	2
20 - 29	3
30 - 39	9
40 - 49	3



- 2 Complete the following table according to thr equation :  $y = 3x + 2$

X	0	2	4	6
Y	2	8	14	20

- 3 Show that the following expressions are equivalent or not by using substituting

$$2(2t + 9) , 4t + 18$$

$$x=1: 2(2 \times 1 + 9) = 22 , 4 \times 1 + 18 = 22$$

$$x=2: 2(2 \times 2 + 9) = 26 , 4 \times 2 + 18 = 26$$

So , the two expressions are equivalent

- 4 Rahma bought 56 meters of cloth with 6,944 LE , find the price of each meter ?  
 $6,944 \div 56 = 124$  L.E

Model Answer (5)

Question 1 : Choose the correct answer :

- 1 The mean of 5 , 8 , 6 , x is 5 , then x = .....  
 (a) 0      (b) 1      (c) 2      (d) 3
- 2 The number .....neither positive nor negative  
 (a) 0      (b) 1      (c) -1      (d) 0.5
- 3 The natural numbers .....the counting numbers .  
 (a) belong      (b) not belong      (c) subset      (d) not subset
- 4  $5m + 8 \leq 12$  is .....  
 (a) Algebraic term      (b) equation      (c) expression      (d) inequality
- 5 To find the value of  $5 \times 4 \div 10 - (7 + 8)$  , we must do .....first .  
 (a) subtraction      (b) addition      (c) multiplication      (d) division
- 6  $|-12.25| =$  .....  
 (a) -12      (b) 12      (c) -12.25      (d) 12.25
- 7 Subtract 2.5 from m , then multiply the result by 2 is .....  
 (a)  $(2.5 - m) \times 2$       (b)  $2.5 - m \times 2$       (c)  $(m - 2.5) \times 2$       (d)  $m - 2.5 \times 2$

Question 2 : Complete the following :

- 1 The mode of the opposite data set is 6
- 2 If  $x + 20 = 26$  , then  $0.5x =$  3
- 3  $15 \div 3 + 9 - 14 =$  0
- 4 The range of the values : 14 , 5 , 14 , 70 , 63 , 20 , 12 is 65
- 5 The distance between 4 and  $|-4|$  is 0
- 6 Double of the number b is  $2b$
- 7 The variable in the equation :  $10 + 2m - 2.3 = 40$  is m
- 8  $(8 , 6)$  satisfies the rule :  $y = \frac{1}{2}x + 2$



**Question 3 : Choose the correct answer :**

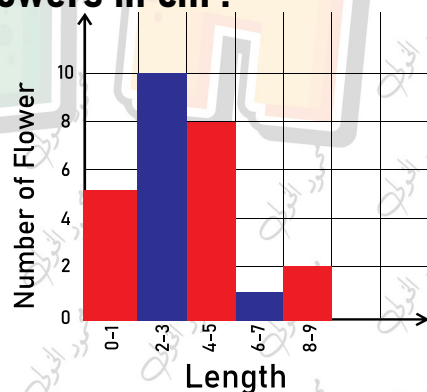
- 1 .....is a descriptive data .  
 (a) weight      (b) age      (c) Tall      (d) **your father name**
- 2 The equation is a mathematical expression contains .....between two mathematical sentences.  
 (a) >      (b) <      (c) **=**      (d) ≥
- 3  $-2\frac{5}{9}$    $-5\frac{7}{9}$   
 (a) **>**      (b) <      (c) =      (d) ≥
- 4 The outlier for the set of data : 105 , 102 , 16 , 114 , 116 , 110 is .....  
 (a) 114      (b) **16**      (c) 100      (d) 50
- 5 One is the only common factor of.....numbers  
 (a) **relatively prime**      (b) composite      (c) even      (d) odd
- 6 The integers is .....numbers .  
 (a) counting      (b) natural      (c) **rational**      (d) all of them
- 7  $-(-5) =$  .....  
 (a) -5      (b) **5**      (c) 0      (d) 10

**Question 4 : Answer the following :**

- 1 Find the mean , median , mode , range and outlier for the following data :  
 ( 12 , 5 , 3 , 3 , 4 , 7 , 8 )  
**Mean = 6 , median = 5 , mode = 3 , outlier = 12 , range = 9**

- 2 The following table represents lengths of flowers in cm :  
 Represent this data by histogram.

Length	0-1	2-3	4-5	6-7	8-9
Number of Flower	5	10	8	1	2



- 3 Malak need 30 to buy a CD . She doesn't have enough money to buy it. Write 4 possible amounts of money that Malak has.  
**20 , 25 , 10 , 12**
- 4 Find four rational numbers lying between : 2.4 and 2.5  
**2.41 , 2.42 , 2.45 , 2.49**

# Mr Mahmoud Elkholy

بنعمل كل ده علشان تغلط وتتعلم ، لازم تبقي عارف إن الغلط بيعلم ويبثبت المعلومة  
السؤال اللي بتحلّه غلط أهم بكتير من السؤال اللي بتحلّه صح  
بالتوفيق يا حبايبي..

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