

1<sup>st</sup> term exam 2024 – 2025

**Model (A)**

**1) Choose the correct answer:**

1) If  $m(\angle B) = 150^\circ$ , then  $m(\text{reflex } \angle B) = \dots\dots\dots^\circ$

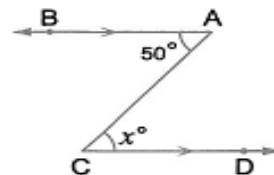
- a) 30                      b) 20                      c) 110                      d) 210

2) Which of the following equal  $8Y$ ?

- a)  $5 + 3Y$                       b)  $3 + 5Y$                       c)  $8 + Y$                       d)  $3Y + 5Y$

3) In the opposite figure:

What is the value of  $x$ ?



- a)  $40^\circ$                       b)  $50^\circ$                       c)  $60^\circ$                       d)  $130^\circ$

4) From the opposite stem- and-leaf plot,  
What is the median?

- a) 16                      b) 17  
c) 18                      d) 20

Stem	Leaves
0	9
1	0 2 2 2 3 4 5 6 6
2	0 1 1 5 7 8 9
3	1 2 3
<b>Key</b>	<b>3   2 means 32</b>

5) If  $\frac{x}{20} = \frac{3}{4}$ , then value of  $x$  is .....

- a) 5                      b) 8                      c) 10                      d) 15

6) The two diagonals are perpendicular and equal in .....

- a) Square                      b) Rhombus                      c) Rectangle                      d) Parallelogram

7) If the length of drawing is 2cm and the real length 6cm, then the drawing scale is ...

- a) 1 : 3                      b) 1 : 30                      c) 1 : 300                      d) 1 : 3000

8) If the point  $(x, 7)$  lies on Y-axis, then the value of  $5x + 1$  is .....

- a) 0                      b) 1                      c) 5                      d) 6

9) The measure of each angle of regular hexagon equal .....

- a) 60                      b) 108                      c) 120                      d) 135

**2) Answer the following questions:**

1) Given:  $A = \{ 9, 6, 7, 10 \}$ ,  $B = \{ 8, 9, 10 \}$ , find:

a)  $A \cup B$

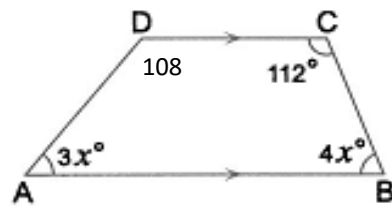
B)  $A \cap B$

2) If the price of a mobile phone in a store is 12 750 L.E and its price was reduced by 8%, what will be the price after the discount?

**3) In the opposite figure:**

ABCD is a trapezium

find with prove the value of  $x$



4) If ABCD is a rhombus where A ( 3 , 5 ) , B ( 12 , -3 ) and C ( 13 , 9 ) , find the coordinate of the following :

a) the point of intersection of its diagonals.

b) The coordinate of point D

5) If the map scale in 1 : 300,000 and the real distance between two cities is 720 km, how far apart they on the map?

6) Find in N the solution set of the equation:  $3(x - 2) - 4x = -8$  ?

7) If the ratio of Ahmed's and Mostafa's shares of the profits in a business project is 2 :3 and Ahmed's share is 6000 pounds, what is Mostafa's share?