

**Question 1**

$$-10 + -3 - -4 + 5$$

**A: 2****B: -12****C: -4****D: 16****E: None of these**

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**Question 2**

$$-96 \div -6 \div 8 =$$

**A: 2****B: 12****C: -12****D: -2****E: None of these**

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**Question 3**

Jo bought a used car for \$6000 and paid 15% deposit. How much did he still have to pay?

**A: \$900****B: \$5000****C: \$4500****D: \$5100****E: None of these**

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**Question 4**

$$5 \times -2 - (8 - 12) + 16 \div -8 =$$

**A: 6****B: -8****C: -16****D: -6****E: None of these**

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**Question 5**

What is 8% of \$600?

**A: \$580****B: \$480****C: \$48****D: \$58****E: None of these**

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**Question 6**

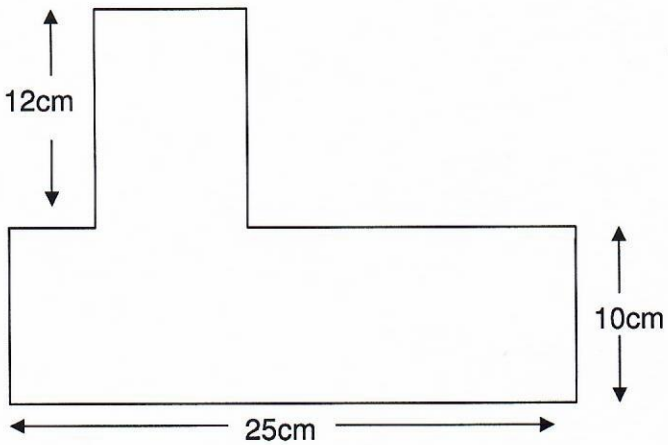
Which is the longest distance?

**A: 3500cm****B: 65.5m****C: 75000mm****D: 15.5m****E: 0.1km**

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**Question 7**

The perimeter of the shape is



A: 47cm

B: 72cm

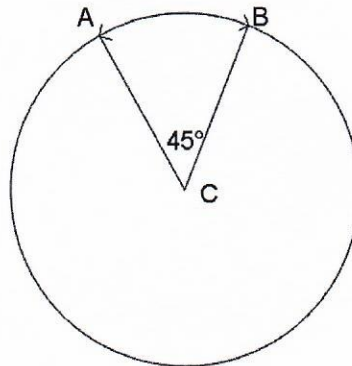
C: 69cm

D: 94cm

E: Not enough information to find perimeter

**Question 8**

If the length of the shorter arc  $\overline{AB}$  is 22cm and C is the centre of the circle then the circumference of the circle is:



A: 990cm

B: 67cm

C: 176cm

D: 88cm

E: None of these

**Question 9**

If 2 fligs make a flog and 3 flogs make a flug, how many fligs in 12 flugs?

A: 72

B: 17

C: 36

D: 34

E: None of these

**Question 10**

If  $2\frac{1}{3} : 4\frac{1}{3}$  then  $7 : \square = \square$

A: 12

B: 13

C:  $8\frac{2}{3}$

D:  $6\frac{1}{3}$

E: None of these

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**Question 11**

Concrete is made by mixing screenings cement and sand in the ratio 3:1:15. How much sand would be needed to make 125 tonnes of concrete?

A: 27 tonnes

B: 33.75 tonnes

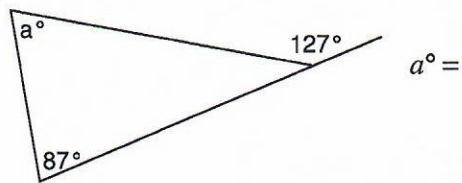
C: 45 tonnes

D: 75 tonnes

E: None of these

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**Question 12**



A: 53

B: 40

C: 93

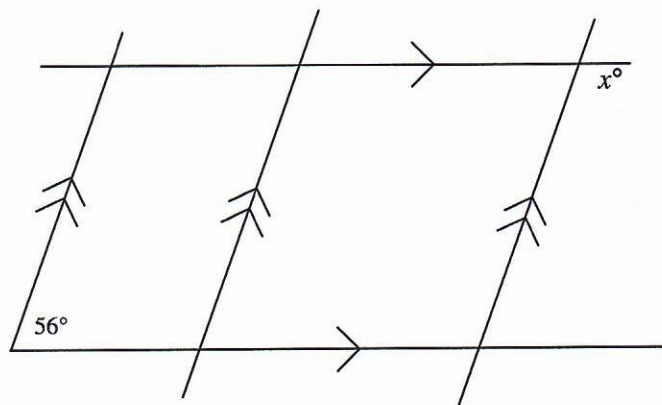
D: 146

E: None of these

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**Question 13**

$x^\circ =$



A: 124

B: 304

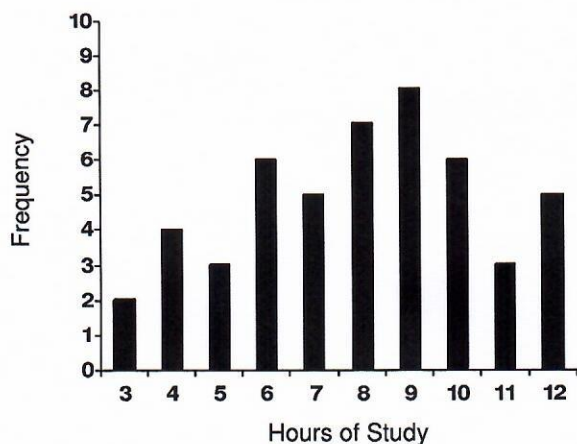
C: 54

D: 66

E: None of these

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Use the following graph to answer questions 14 and 15



The graph shows the number of hours a year 8 group spent doing homework for one week.

**Question 14**

How many students studied for more than 8 hours in the week?

- A: 22                      B: 29                      C: 42                      D: 50                      E: None of these
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**Question 15**

How many students studied for 6 hours or less per week?

- A: 9                          B: 18                      C: 15                      D: 12                      E: None of these
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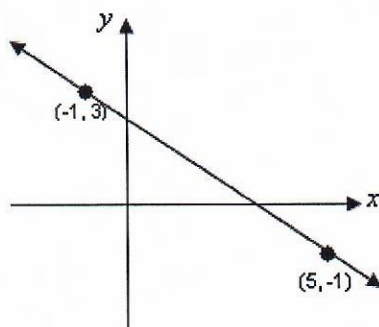
**Question 16**

Two six sided dice are thrown together. What is the probability that a total of 10 is thrown?

- A:  $\frac{1}{6}$                       B:  $\frac{1}{12}$                       C:  $\frac{1}{2}$                       D:  $\frac{5}{6}$                       E: None of these

**Question 17**

The gradient of the line is

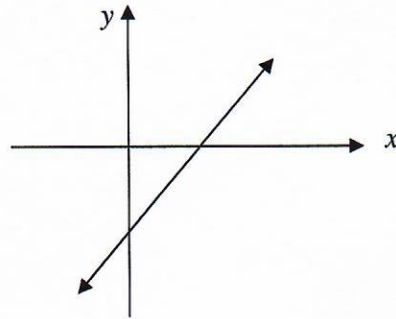


- A:  $\frac{3}{2}$                           B:  $\frac{2}{3}$                       C:  $-\frac{2}{3}$                       D:  $-\frac{3}{2}$                       E: None of these

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**Question 18**

The y intercept of the graph could only be:



**A:**  $(4,0)$

**B:**  $(0,-3)$

**C:**  $(-4,0)$

**D:**  $(-3,0)$

**E:**  $(0,3)$ 

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**Question 19**

Which inequation shows the following statement?

**x is 6 or less and more than - 5**

**A:**  $-5 < x \leq 6$

**B:**  $-5 > x \leq 6$

**C:**  $-5 \leq x \leq 6$

**D:**  $-5 < x < 6$

**E:**  $-5 \leq x < 6$ 

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**Question 20**

Expand and simplify

$$-6(2x - 3) - 11$$

**A:**  $-12x - 29$

**B:**  $7 - 12x$

**C:**  $12x - 7$

**D:**  $7 + 12x$

**E:** None of these

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