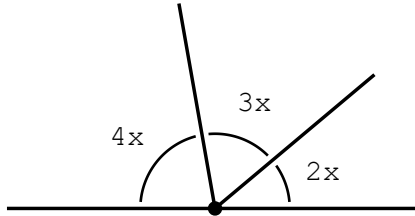


Geometry: 2D Shapes & Angles: Hard Practice

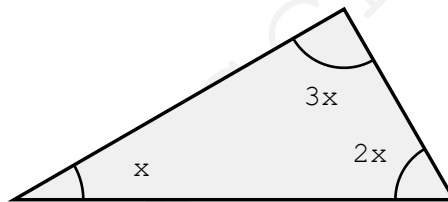
Paper 1

Q1. Work out the value of x .



- A. 20° B. 25° C. 30° D. 36° E. 45°

Q2. Work out the size of the largest angle in this triangle.

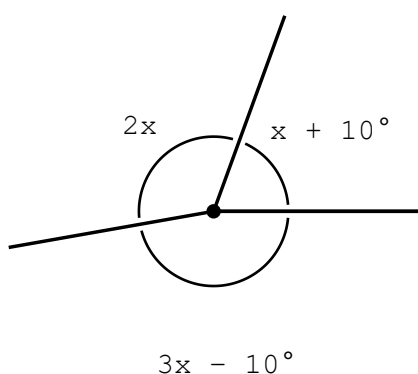


- A. 30° B. 60° C. 90° D. 120° E. 150°

Q3. Each interior angle of a regular polygon is 162° . How many sides does it have?

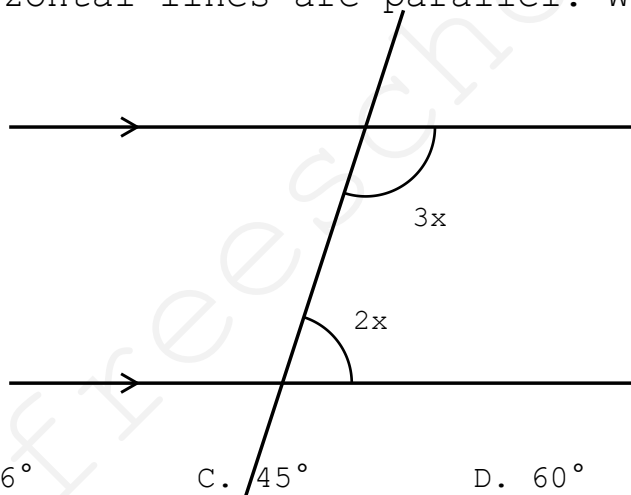
- A. 12 B. 15 C. 18 D. 20 E. 24

Q4. Work out the value of x .



- A. 30° B. 40° C. 45° D. 50° E. 60°

Q5. The two horizontal lines are parallel. Work out the value of x .



- A. 30° B. 36° C. 45° D. 60° E. 72°

Q6. In triangle ABC, the exterior angle at C is 130° and angle A is 55° . What is the size of angle B?

- A. 45° B. 55° C. 65° D. 75° E. 85°

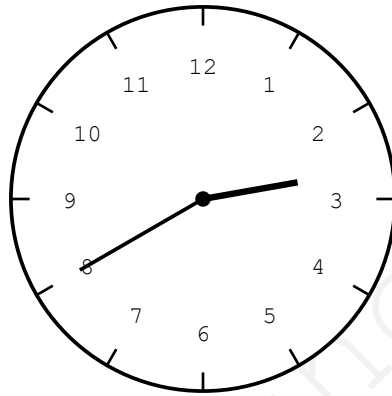
Q7. A regular polygon has rotational symmetry of order 9. How many lines of symmetry does it have?

- A. 3 B. 6 C. 9 D. 12 E. 18

Q8. The interior angles of a polygon add up to 2340° . How many sides does it have?

- A. 9 B. 11 C. 13 D. 14 E. 15

Q9. What is the size of the angle between the hands of this clock?

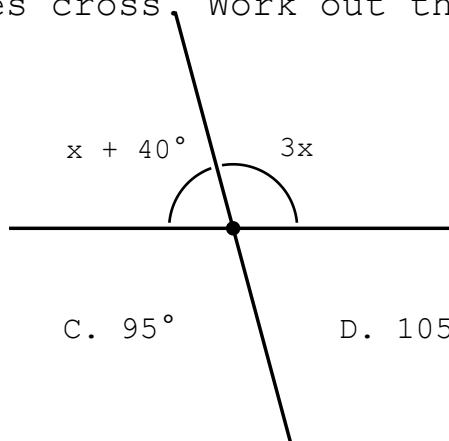


- A. 140° B. 150° C. 160° D. 170° E. 180°

Q10. The angles of a quadrilateral are in the ratio 3 : 4 : 5 : 6. What is the largest angle?

- A. 100° B. 120° C. 140° D. 150° E. 160°

Q11. Two straight lines cross. Work out the size of the larger marked angle.



- A. 75° B. 85° C. 95° D. 105° E. 115°

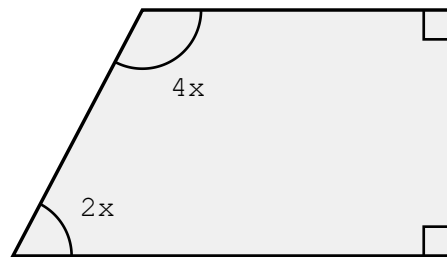
Q12. A regular octagon is split into 8 equal triangles by joining every corner to its centre. What is the angle at the centre of each triangle?

- A. 45° B. 60° C. 72° D. 90° E. 135°

Q13. The reflex angle at a point is 250° . What is the other angle at that point?

- A. 90° B. 110° C. 130° D. 150° E. 250°

Q14. Work out the value of x in this trapezium.



- A. 15° B. 20° C. 25° D. 30° E. 36°

Q15. Which regular polygon has an interior angle of 108° ?

- A. Triangle B. Square C. Hexagon D. Octagon E. Pentagon