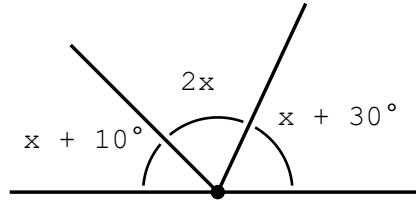


Geometry: 2D Shapes & Angles: Hard Practice

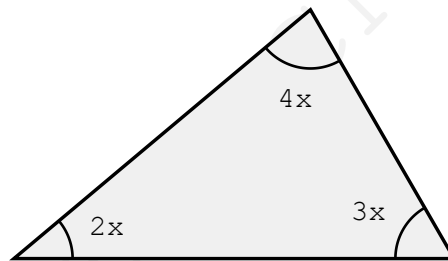
Paper 2

Q1. Work out the value of x .



- A. 25° B. 30° C. 35° D. 40° E. 45°

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

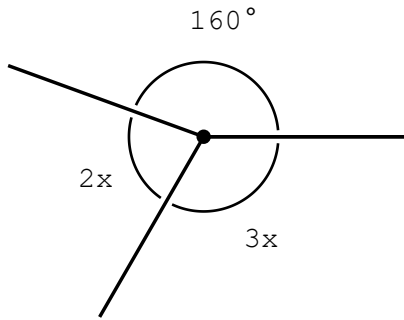


- A. 20° B. 40° C. 60° D. 80° E. 90°

Q3. Each exterior angle of a regular polygon is 15° . How many sides does it have?

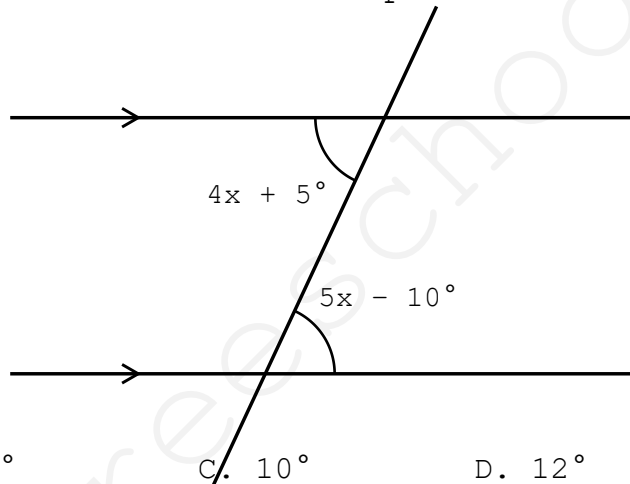
- A. 12 B. 18 C. 20 D. 24 E. 30

Q4. Work out the value of x .



- A. 40° B. 45° C. 50° D. 60° E. 72°

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



- A. 5° B. 8° C. 10° D. 12° E. 15°

Q6. An exterior angle of a triangle is 140° , and the two interior angles opposite it are equal. How big is each of them?

- A. 35° B. 40° C. 55° D. 70° E. 110°

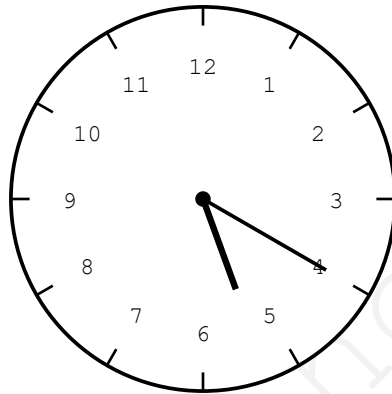
Q7. A regular polygon has 18 sides. What is the size of each interior angle?

- A. 140° B. 150° C. 160° D. 162° E. 170°

Q8. The interior angles of a polygon add up to 1620° . How many sides does it have?

- A. 11 B. 12 C. 13 D. 14 E. 15

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

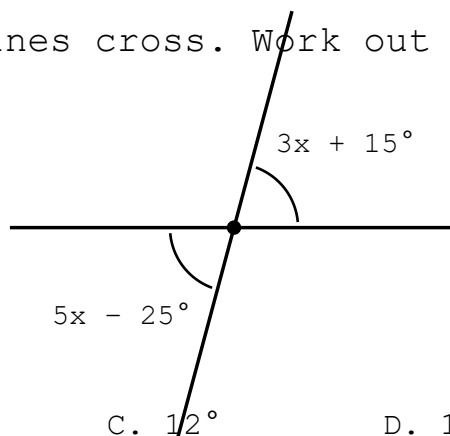


- A. 30° B. 40° C. 50° D. 60° E. 70°

Q10. The angles of a triangle are in the ratio 3 : 5 : 7. What is the largest angle?

- A. 36° B. 60° C. 72° D. 84° E. 96°

Q11. Two straight lines cross. Work out the value of x .



- A. 5° B. 10° C. 12° D. 15° E. 20°

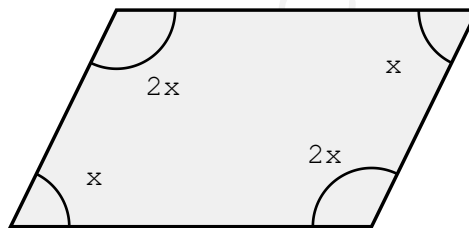
Q12. A regular hexagon is split into 6 triangles by joining every corner to its centre. What type of triangle is each one?

- A. Scalene
- B. Equilateral
- C. Isosceles
- D. Right-angled
- E. Obtuse-angled

Q13. Angle AOB measures 78° . What is the size of the reflex angle AOB?

- A. 102°
- B. 192°
- C. 272°
- D. 282°
- E. 292°

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



- A. 30°
- B. 45°
- C. 60°
- D. 72°
- E. 90°

Q15. Which regular polygon has an interior angle of 135° ?

- A. Pentagon
- B. Hexagon
- C. Heptagon
- D. Octagon
- E. Decagon