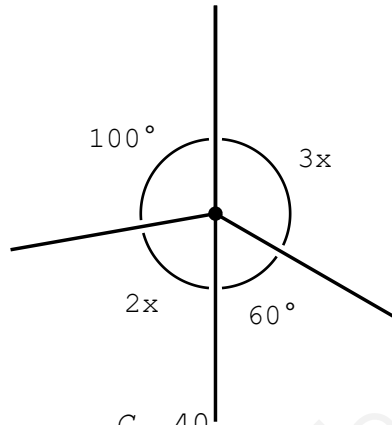


Geometry: 2D Shapes & Angles: Medium Practice Paper 8

Q1. These four angles meet at a point. Work out the value of x .



- A. 20 B. 30 C. 40 D. 45 E. 60

Q2. The three angles of a triangle are $2x$, $3x$ and $4x$. What is the size of the largest angle?

- A. 20° B. 40° C. 60° D. 80° E. 100°

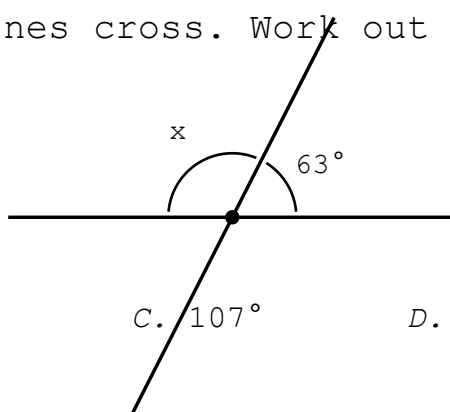
Q3. The interior angle of a regular polygon is exactly twice its exterior angle. How many sides does the polygon have?

- A. 4 B. 5 C. 6 D. 8 E. 10

Q4. What do the interior angles of a 12-sided polygon add up to?

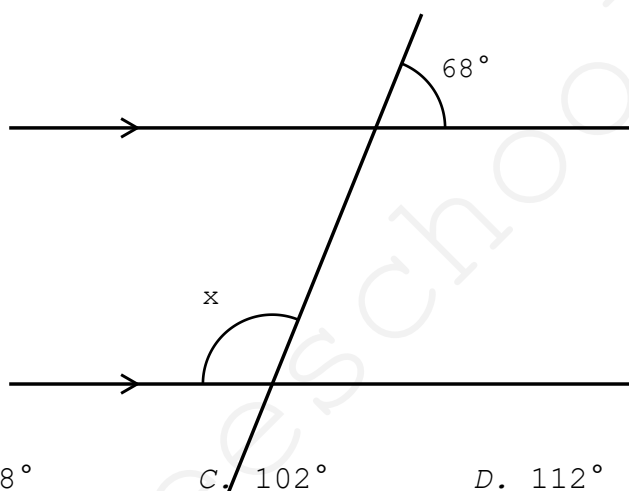
- A. $1,440^\circ$ B. $1,620^\circ$ C. $1,800^\circ$ D. $2,160^\circ$ E. $2,340^\circ$

Q5. Two straight lines cross. Work out the size of angle x .



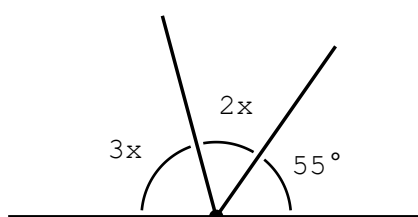
- A. 27° B. 63° C. 107° D. 117° E. 127°

Q6. The two horizontal lines are parallel. Work out the size of angle x .



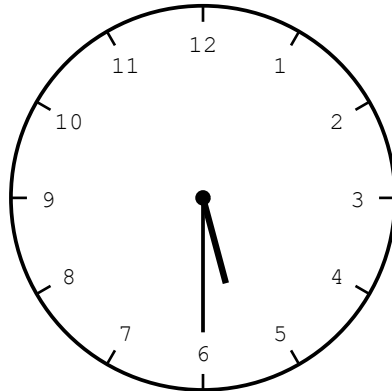
- A. 22° B. 68° C. 102° D. 112° E. 122°

Q7. Work out the value of x .



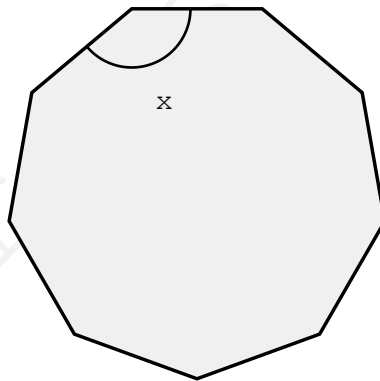
- A. 11 B. 15 C. 25 D. 36 E. 55

Q8. What is the size of the angle between the hands of this clock?



- A. 0° B. 15° C. 30° D. 45° E. 60°

Q9. This is a regular nonagon, which has 9 sides. Work out the size of angle x.



- A. 40° B. 120° C. 135° D. 140° E. 144°

Q10. Which of these shapes will NOT tessellate on its own?

- A. An equilateral triangle
 B. A square
 C. A rectangle
 D. A regular hexagon
 E. A regular pentagon

Q11. Which of these shapes has rotational symmetry of order 4?

- A. A square
- B. A rectangle
- C. A rhombus
- D. An equilateral triangle
- E. A regular hexagon

Q12. How many degrees does the minute hand of a clock turn through in 25 minutes?

- A. 25°
- B. 125°
- C. 150°
- D. 175°
- E. 180°

Q13. The angles of a quadrilateral are in the ratio 2 : 3 : 3 : 4. What is the size of the largest angle?

- A. 60°
- B. 90°
- C. 120°
- D. 150°
- E. 160°

Q14. Two angles are vertically opposite each other. One is 70° and the other is $2x + 10$. What is the value of x ?

- A. 20
- B. 30
- C. 35
- D. 40
- E. 60

Q15. Which of these shapes has exactly 3 lines of symmetry?

- A. An isosceles triangle
- B. A square
- C. A rhombus
- D. A regular pentagon
- E. An equilateral triangle