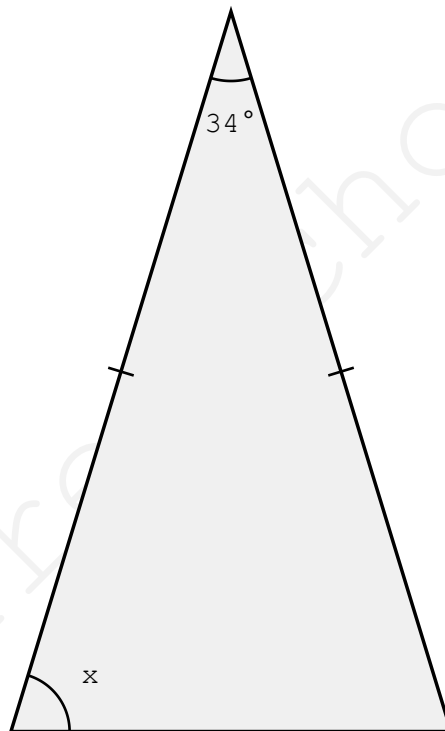


## Geometry: 2D Shapes & Angles: Medium Practice Paper 5

Q1. The interior angles of a polygon add up to  $1080^\circ$ . How many sides does it have?

- A. 8                      B. 9                      C. 10                      D. 12                      E. 15

Q2. The two dashed sides of this triangle are equal. Work out the size of angle  $x$ .

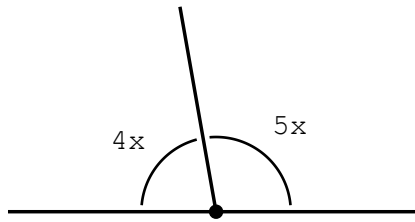


- A.  $34^\circ$                       B.  $56^\circ$                       C.  $63^\circ$                       D.  $73^\circ$                       E.  $146^\circ$

Q3. How many degrees does the minute hand of a clock turn through in 20 minutes?

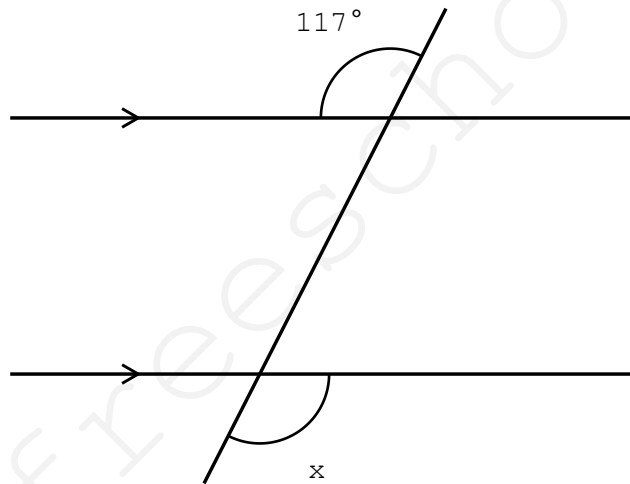
- A.  $60^\circ$                       B.  $72^\circ$                       C.  $90^\circ$                       D.  $100^\circ$                       E.  $120^\circ$

Q4. Work out the value of  $x$ .



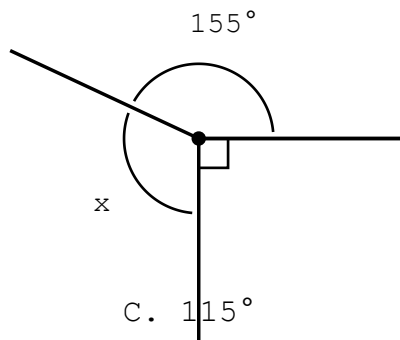
- A.  $15^\circ$       B.  $20^\circ$       C.  $25^\circ$       D.  $30^\circ$       E.  $36^\circ$

Q5. The two horizontal lines are parallel. Work out the size of angle  $x$ .



- A.  $53^\circ$       B.  $63^\circ$       C.  $107^\circ$       D.  $117^\circ$       E.  $127^\circ$

Q6. These three angles meet at a point. Work out the size of angle  $x$ .

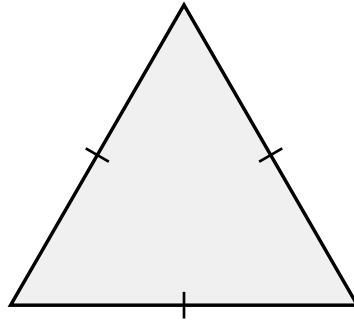


- A.  $95^\circ$       B.  $105^\circ$       C.  $115^\circ$       D.  $125^\circ$       E.  $135^\circ$

Q7. Each interior angle of a regular polygon is  $150^\circ$ . How many sides does it have?

- A. 9                      B. 10                      C. 12                      D. 15                      E. 18

Q8. What is the order of rotational symmetry of this equilateral triangle?

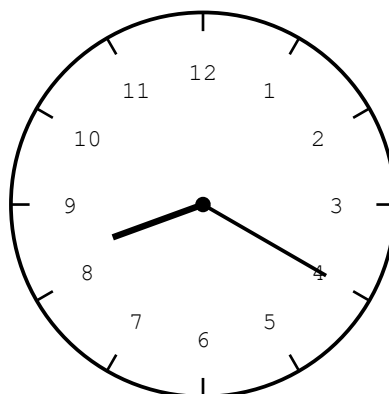


- A. 1                      B. 2                      C. 3                      D. 4                      E. 6

Q9. Two angles are vertically opposite. One is  $3x$  and the other is  $75^\circ$ . What is the value of  $x$ ?

- A.  $15^\circ$                       B.  $25^\circ$                       C.  $35^\circ$                       D.  $45^\circ$                       E.  $75^\circ$

Q10. What is the size of the angle between the hands of this clock?



- A.  $120^\circ$                       B.  $130^\circ$                       C.  $140^\circ$                       D.  $150^\circ$                       E.  $160^\circ$

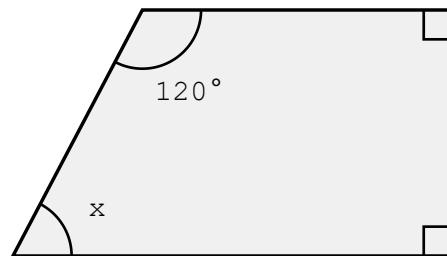
Q11. The angles of a quadrilateral are in the ratio 1 : 2 : 3 : 4. What is the largest angle?

- A.  $36^\circ$       B.  $72^\circ$       C.  $100^\circ$       D.  $108^\circ$       E.  $144^\circ$

Q12. Drawing every diagonal from one corner of a hexagon splits it into triangles. How many triangles are made?

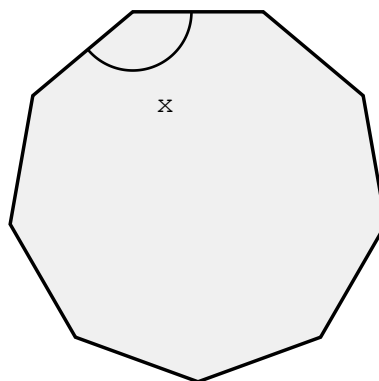
- A. 2      B. 3      C. 4      D. 5      E. 6

Q13. Work out the size of angle  $x$  in this trapezium.



- A.  $50^\circ$       B.  $60^\circ$       C.  $70^\circ$       D.  $80^\circ$       E.  $90^\circ$

Q14. This is a regular nonagon (9 sides). Work out the size of angle  $x$ .



- A.  $40^\circ$       B.  $120^\circ$       C.  $135^\circ$       D.  $140^\circ$       E.  $144^\circ$

Q15. Which quadrilateral has exactly one pair of parallel sides?

- A. Square
- B. Rhombus
- C. Trapezium
- D. Parallelogram
- E. Rectangle

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