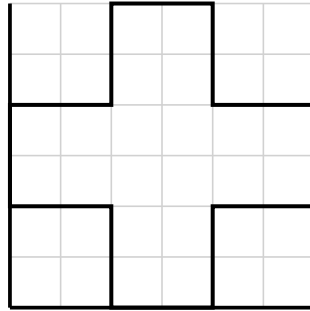


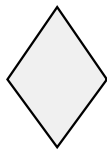
Geometry: 2D Shapes & Angles: Medium Practice Paper 7

Q1. How many lines of symmetry does this shape have?



- A. 0 B. 1 C. 2 D. 4 E. 8

Q2. Which of these shapes has exactly one line of symmetry?



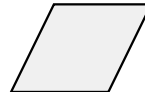
A



B



C



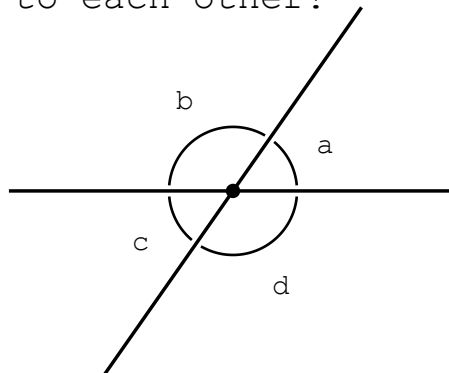
D



E

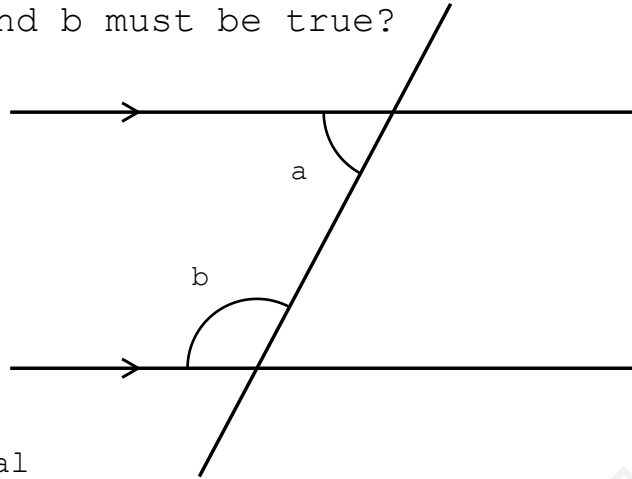
- A. A B. B C. C D. D E. E

Q3. Two straight lines cross. Which two of the marked angles must always be equal to each other?



- A. a and b B. a and c C. b and c D. c and d E. a and d

Q4. The two horizontal lines are parallel. Which statement about angles a and b must be true?



- A. a and b are equal
- B. a and b add up to 180°
- C. a and b add up to 90°
- D. a is twice as big as b
- E. It cannot be decided

Q5. Two angles of a triangle are 35° and 85° . One side is then extended to make an exterior angle next to the third angle. How big is that exterior angle?

- A. 60°
- B. 95°
- C. 110°
- D. 120°
- E. 145°

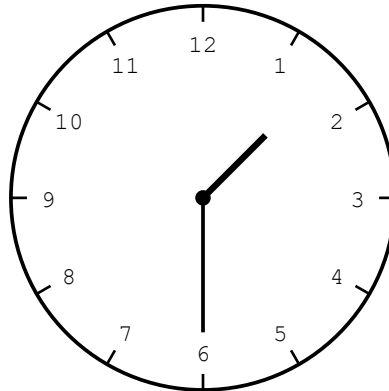
Q6. Each exterior angle of a regular polygon is 24° . How many sides does it have?

- A. 12
- B. 14
- C. 15
- D. 18
- E. 24

Q7. Drawing every diagonal from one corner of an octagon splits it into triangles. How many triangles are made?

- A. 4
- B. 5
- C. 6
- D. 7
- E. 8

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

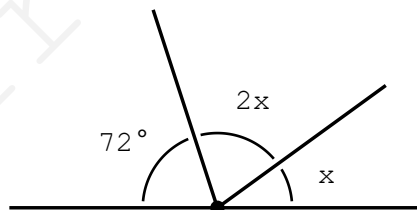


- A. 105° B. 120° C. 135° D. 150° E. 165°

Q9. Two arms make an angle of 145° . What is the reflex angle on the other side of the arms?

- A. 35° B. 55° C. 180° D. 215° E. 235°

Q10. Work out the value of x .



- A. 18 B. 24 C. 30 D. 36 E. 45

Q11. Three angles of a quadrilateral are 68° , 94° and 117° . What is the fourth angle?

- A. 71° B. 81° C. 89° D. 91° E. 101°

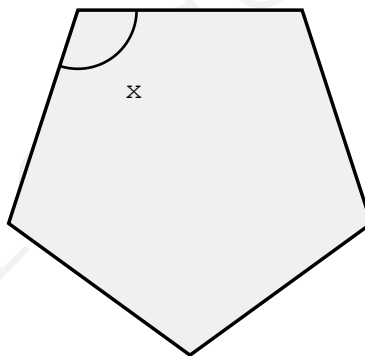
Q12. A triangle has angles of 40° , 40° and 100° . Which description fits it best?

- A. Isosceles and obtuse-angled
- B. Isosceles and right-angled
- C. Scalene and acute-angled
- D. Scalene and right-angled
- E. Equilateral

Q13. How many lines of symmetry does a regular polygon with 12 sides have?

- A. 2
- B. 6
- C. 10
- D. 12
- E. 24

Q14. This is a regular pentagon. Work out the size of angle x .



- A. 72°
- B. 100°
- C. 108°
- D. 120°
- E. 135°

Q15. Which quadrilateral has diagonals that are equal in length but do NOT cross at right angles?

- A. A square
- B. A rhombus
- C. A kite
- D. A parallelogram
- E. A rectangle