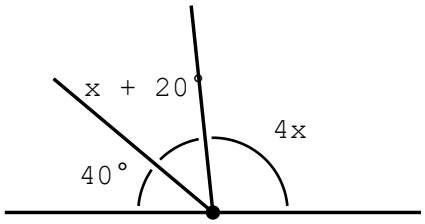
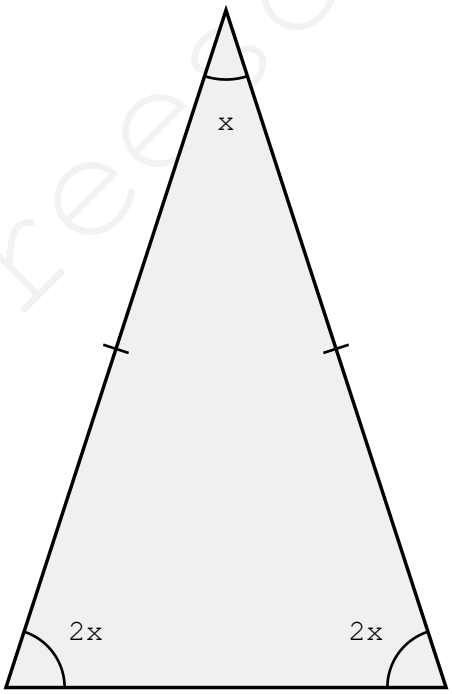
Geometry: 2D Shapes & Angles: Hard Practice Paper 4

Q1. Work out the value of x.



A. 18° B. 20° C. 24° D. 28° E. 30°

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



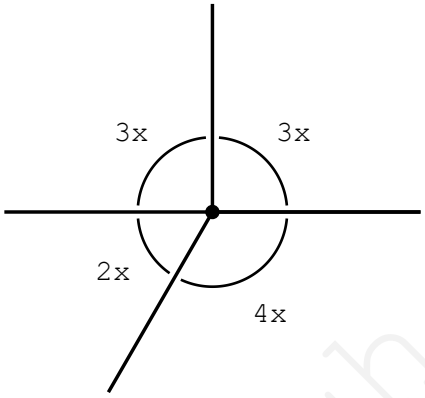
A. 30° B. 36° C. 45° D. 54° E. 72°

myfreeschool

Q3. Each exterior angle of a regular polygon is 40°. How many sides does it have?

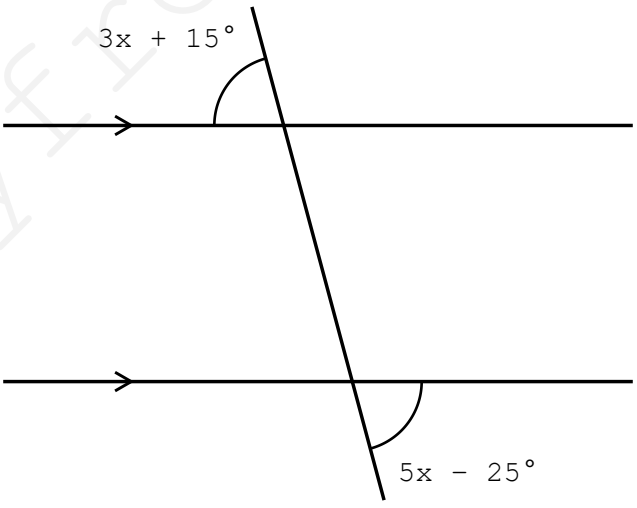
A. 9 B. 10 C. 12 D. 15 E. 18

Q4. These four angles meet at a point. Work out the size of the largest one.



A. 60° B. 90° C. 100° D. 120° E. 150°

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



A. 15° B. 20° C. 25° D. 30° E. 40°

myfreeschool

Q6. The angles of a triangle are x, x + 20° and x + 40°. What is the largest angle?

A. 40° B. 60° C. 80° D. 100° E. 120°

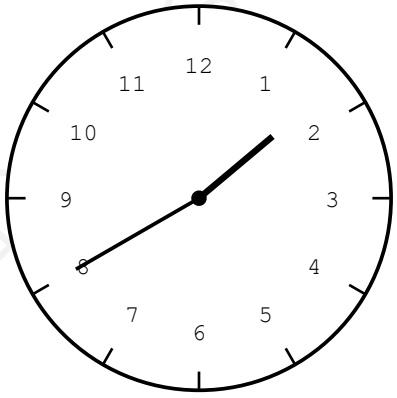
Q7. A regular polygon has 15 sides. What is the size of each interior angle?

A. 135° B. 140° C. 144° D. 150° E. 156°

Q8. The interior angles of a polygon add up to 1260°. How many sides does it have?

A. 9 B. 10 C. 11 D. 12 E. 13

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



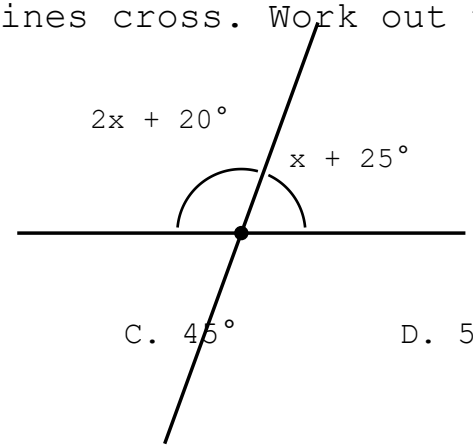
A. 140° B. 150° C. 160° D. 170° E. 180°

Q10. The angles of a triangle are in the ratio 4 : 5 : 9. What is the largest angle?

A. 40° B. 50° C. 60° D. 80° E. 90°

myfreeschool

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



A. 35° B. 40° C. 45° D. 50° E. 55°

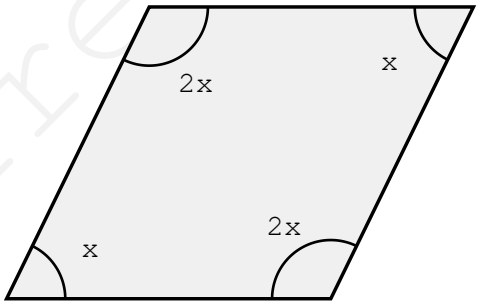
Q12. How many lines of symmetry does a regular octagon have?

A. 6 B. 8 C. 10 D. 12 E. 16

Q13. An angle of 132° and its reflex angle together make a full turn. How big is the reflex angle?

A. 48° B. 208° C. 218° D. 228° E. 238°

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



A. 30° B. 45° C. 60° D. 90° E. 120°

Q15. Which regular polygon has an interior angle of 120°?

A. Square B. Pentagon C. Heptagon D. Octagon E. Hexagon

myfreeschool