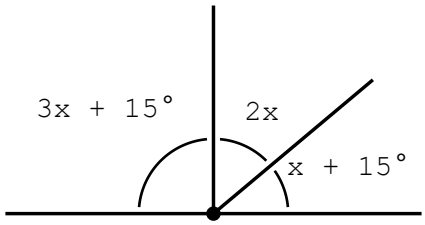
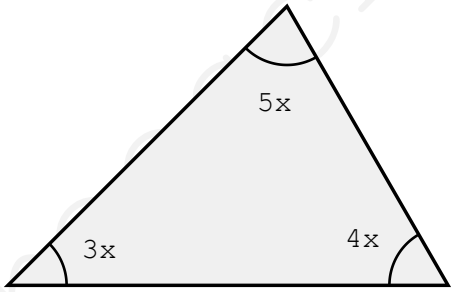
Geometry: 2D Shapes & Angles: Hard Practice Paper 5

Q1. Work out the value of x.



A. 20° B. 25° C. 30° D. 35° E. 40°

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



A. 45° B. 60° C. 75° D. 90° E. 105°

Q3. Each interior angle of a regular polygon is 165°. How many sides does it have?

A. 18 B. 20 C. 22 D. 24 E. 30

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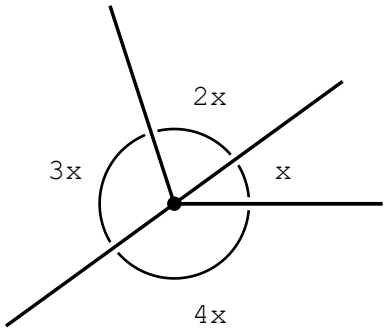
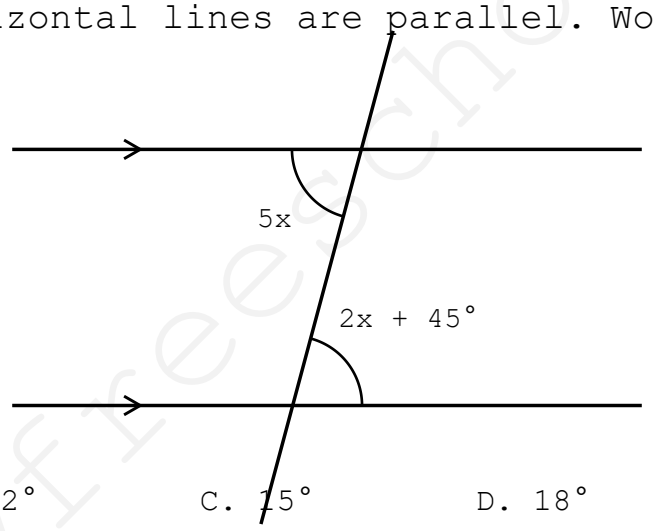
Q4. These four angles meet at a point. Work out the size of the largest one.



A. 36° B. 72° C. 108° D. 120° E. 144°

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



A. 10° B. 12° C. 15° D. 18° E. 20°

Q6. Two angles of a triangle are 3x and 5x, and the third angle is 84°. What is the value of x?

A. 12° B. 15° C. 16° D. 20° E. 24°

Q7. A regular polygon has 24 sides. What is the size of each exterior angle?

A. 12° B. 15° C. 18° D. 20° E. 24°

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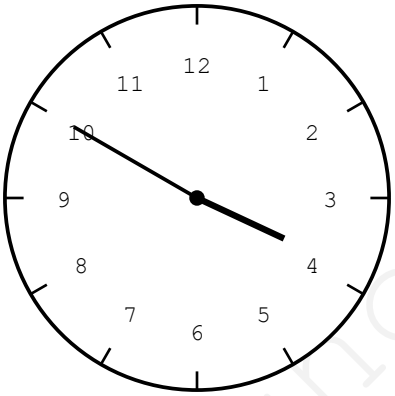
Q8. The interior angles of a polygon add up to 3240°. How many sides does it have?

A. 16 B. 18 C. 19 D. 20 E. 22

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

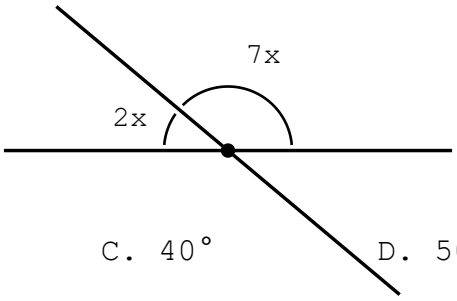


A. 145° B. 155° C. 165° D. 170° E. 175°

Q10. The angles of a quadrilateral are in the ratio 1 : 2 : 2 : 3. What is the largest angle?

A. 45° B. 72° C. 90° D. 135° E. 144°

Q11. Two straight lines cross. Work out the size of the smaller marked angle.



A. 20° B. 30° C. 40° D. 50° E. 60°

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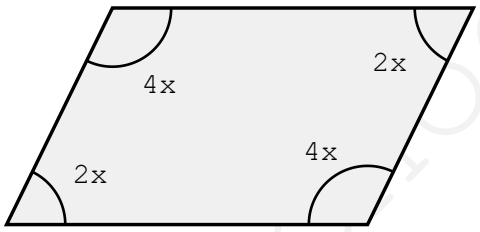
Q12. A regular polygon has rotational symmetry of order 12. How many sides does it have?

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

Q13. Three angles meet at a point. Two of them are 45° and 62°, and the third is reflex. How big is the reflex angle?

A. 107° B. 233° C. 243° D. 253° E. 263°

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



A. 15° B. 20° C. 25° D. 30° E. 36°

Q15. Which regular polygon has an exterior angle of 45°?

A. Pentagon B. Hexagon C. Octagon D. Nonagon E. Decagon

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