Multiple choice questions - Angles, circles and 3D shapes

Year: Year 6 · 10

Question 1 What do the angles in a triangle add up to?

- ◯ **A.** 90°
- ◯ **B.** 180°
- ◯ **C.** 270°
- ◯ **D.** 360°

Question 2 What do the angles in a quadrilateral add up to?

- ◯ **A.** 180°
- ◯ **B.** 270°
- ◯ **C.** 360°
- ◯ **D.** 400°

Question 3 What do angles on a straight line add up to?

- ◯ **A.** 90°
- ◯ **B.** 180°
- ◯ **C.** 360°
- ◯ **D.** 100°

Question 4 Two angles of a triangle are 45° and 85°. What is the third?

- ◯ **A.** 40°
- ◯ **B.** 50°
- ◯ **C.** 130°
- ◯ **D.** 60°

Question 5 The radius of a circle is half of the...

- ◯ **A.** circumference
- ◯ **B.** diameter
- ◯ **C.** area
- ◯ **D.** centre

Question 6 How many faces does a cube have?

- ◯ **A.** 4
- ◯ **B.** 6
- ◯ **C.** 8

- ◯ **D.** 12

Question 7 How many edges does a triangular prism have?

- ◯ **A.** 6
- ◯ **B.** 8
- ◯ **C.** 9
- ◯ **D.** 12

Question 8 What do angles around a point add up to?

- ◯ **A.** 90°
- ◯ **B.** 180°
- ◯ **C.** 270°
- ◯ **D.** 360°

Question 9 Two straight lines cross. One angle is 70°. What is the angle opposite it?

- ◯ **A.** 20°
- ◯ **B.** 70°
- ◯ **C.** 110°
- ◯ **D.** 180°

Question 10 Three angles of a quadrilateral are 100°, 80° and 90°. What is the fourth?

- ◯ **A.** 70°
- ◯ **B.** 80°
- ◯ **C.** 90°
- ◯ **D.** 100°

Answer grid - Angles, circles and 3D shapes

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Question	Answer	Explanation
1	**B**	Always 180 degrees.
2	**C**	A quadrilateral can be split into 2 triangles: 2 x 180 = 360.
3	**B**	A straight line is a half turn.
4	**B**	45 + 85 = 130. 180 - 130 = 50.
5	**B**	The diameter is twice the radius.
6	**B**	A cube has 6 square faces.
7	**C**	3 + 3 + 3 = 9.
8	**D**	A full turn.
9	**B**	Vertically opposite angles are equal.
10	**C**	100 + 80 + 90 = 270. 360 - 270 = 90.