Multiple choice questions - Angles and parallel lines

Year: Year 7 · 10

Question 1 Angles on a straight line are 135° and x. What is x?

- ◯ **A.** 45°
- ◯ **B.** 225°
- ◯ **C.** 55°
- ◯ **D.** 35°

Question 2 Angles at a point add up to

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

Question 3 Two angles of a triangle are 30° and 80°. The third is

- ◯ **A.** 110°
- ◯ **B.** 50°
- ◯ **C.** 70°
- ◯ **D.** 60°

Question 4 The base angles of an isosceles triangle are 50°. The apex angle is

- ◯ **A.** 100°
- ◯ **B.** 50°
- ◯ **C.** 130°
- ◯ **D.** 80°

Question 5 Which pair of angles between parallel lines is equal and forms a Z shape?

- ◯ **A.** Alternate angles
- ◯ **B.** Co-interior angles
- ◯ **C.** Angles on a straight line
- ◯ **D.** Reflex angles

Question 6 Co-interior angles between parallel lines add up to

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

- ◯ **D.** 60°

Question 7 The angles of a quadrilateral add up to

- ◯ **A.** 180°
- ◯ **B.** 270°
- ◯ **C.** 360°
- ◯ **D.** 540°

Question 8 Two straight lines cross. One angle is 40°. The angle next to it is

- ◯ **A.** 40°
- ◯ **B.** 50°
- ◯ **C.** 320°
- ◯ **D.** 140°

Question 9 What type of angle is 125°?

- ◯ **A.** Obtuse
- ◯ **B.** Acute
- ◯ **C.** Reflex
- ◯ **D.** Right

Question 10 An exterior angle of a triangle is 120°. One opposite interior angle is 45°. The other is

- ◯ **A.** 165°
- ◯ **B.** 75°
- ◯ **C.** 60°
- ◯ **D.** 135°

Answer grid - Angles and parallel lines

Year: Year 7

Question	Answer	Explanation
1	**A**	180 - 135 = 45.
2	**B**	A full turn is 360 degrees.
3	**C**	180 - 110 = 70.
4	**D**	180 - 100 = 80.
5	**A**	Z shape means alternate.
6	**B**	They make a C shape and add to 180.
7	**C**	Split into two triangles: 2 x 180.
8	**D**	They are on a straight line: 180 - 40.
9	**A**	Between 90 and 180 degrees.
10	**B**	The exterior angle is the sum of the two opposite interior angles: 120 - 45 = 75.