Angles topic test

12 questions | 18 marks | 30 minutes

Classify, read and construct angles with clear explanations.

Equivalent correct methods earn the corresponding marks.

1. Name the type of angle that is greater than 0 degrees but smaller than a right angle. [1 mark]

Acute angles lie between 0 and 90 degrees.

Answer: Acute

2. Classify 105 degrees. [1 mark]

105 lies between 90 and 180.

Answer: Obtuse

3. How many degrees are in a half turn? [1 mark]

Half of 360 is 180.

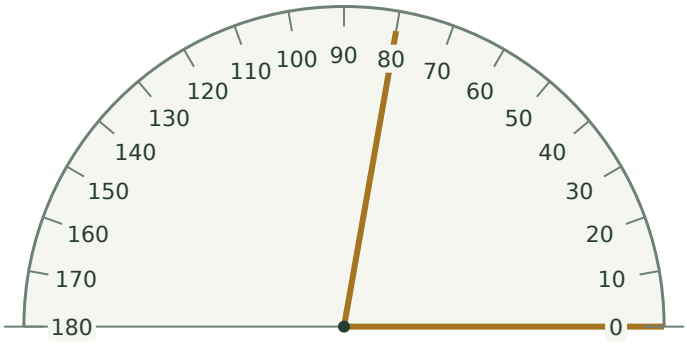
Answer: 180 degrees

4. Classify 250 degrees. [1 mark]

250 lies between 180 and 360.

Answer: Reflex

5. Read the angle. [1 mark]

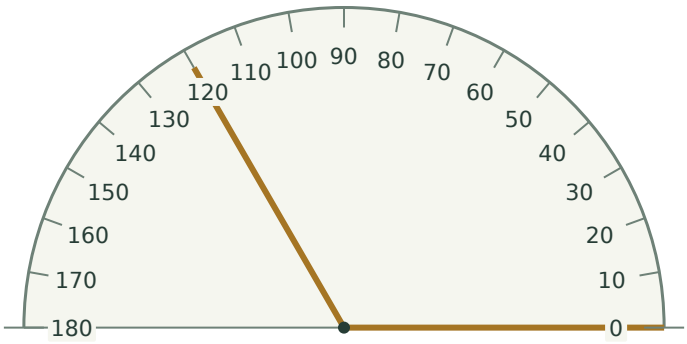


Start at the baseline ray.

Read 80 from the right baseline zero.

Answer: 80 degrees

6. Read the angle. [1 mark]

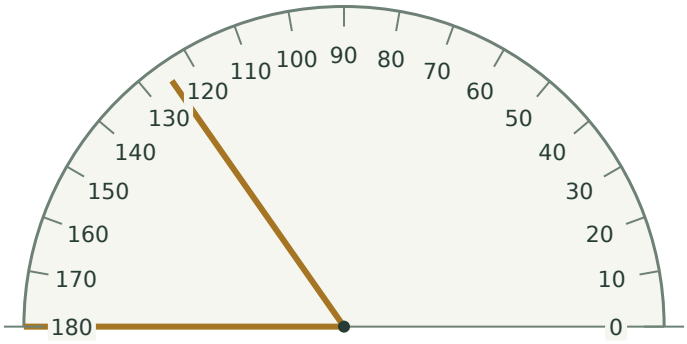


Start at the baseline ray.

Read 120 from the right baseline zero.

Answer: 120 degrees

7. Read from the left baseline. [2 marks]

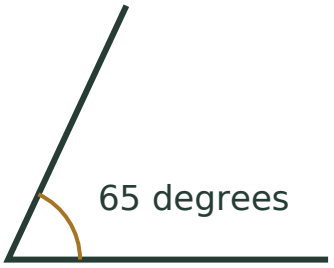


Start at the baseline ray.

The right-zero reading is 125; 180 − 125 = 55.

Answer: 55 degrees

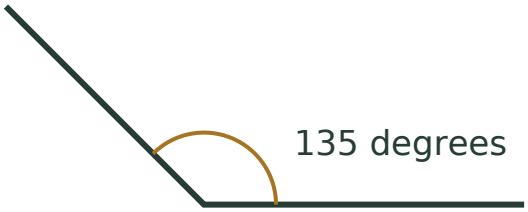
8. Draw 65 degrees with a ruler and protractor. [2 marks]



Draw baseline; align centre and zero; mark 65; draw the second ray.

Answer: A correctly constructed 65-degree angle.

9. Construct 135 degrees. [2 marks]



Mark 135 from the correct zero, join and check the opening.

Answer: A correctly constructed obtuse angle of 135 degrees.

10. An angle looks obtuse. A learner reads 35, but the other scale says 145. Explain the likely error. [2 marks]

35 is acute. Use the scale starting at the baseline zero.

Answer: They used the wrong scale; 145 degrees is reasonable.

11. Both rays are shortened without changing their directions. Does the angle get smaller? Explain. [2 marks]

The angle measures the unchanged turn, not the ray length.

Answer: No.

12. One gate opens through 110 degrees and another through 90 degrees. Which opens wider, and by how much? [2 marks]

Compare 110 and 90.

110 − 90 = 20 degrees.

Answer: The first gate, by 20 degrees.