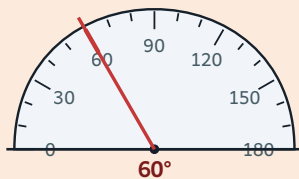


MISSING ANGLE IN A TRIANGLE

- 1 A builder's triangular frame has angles 40° and 80° . Find the third angle.
- 2 Add the known angles: $40 + 80 = 120$.
- 3 Subtract from 180° : $180 - 120 = 60$.
- 4 The missing angle is 60° .

WARM-UP

On the paper shapes, mark the given angles and write each total.



1. On the triangle mark angles 50° , 70° and 60° then write total 180°
2. On the second triangle mark angles 40° , 80° and 60° then write total 180°
3. On the quadrilateral mark angles 90° , 90° , 90° and 90° then write total 360°

PRACTICE

- 1 When making a triangular roof truss, two angles measure 20° and 85° . What is the third angle? _____
- 2 A builder cuts a triangular brace with angles 10° and 55° . Find the missing angle. _____
- 3 While building a right-angled wooden support, two angles are 90° and 45° . What is the third? _____
- 4 A four-sided picture frame for the workshop has angles 100° , 80° and 70° . Find the missing angle. _____
- 5 A tall pointed roof triangle on a model house has angles 120° and 30° . What is the third angle? _____

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- | | |
|---|---|
| a. The three interior angles of a triangle add up to 180° ☐ | c. A triangle can have interior angles that add to 200° ☐ |
| b. The four interior angles of a quadrilateral add up to 360° ☐ | d. A triangle can contain two right angles ☐ |

