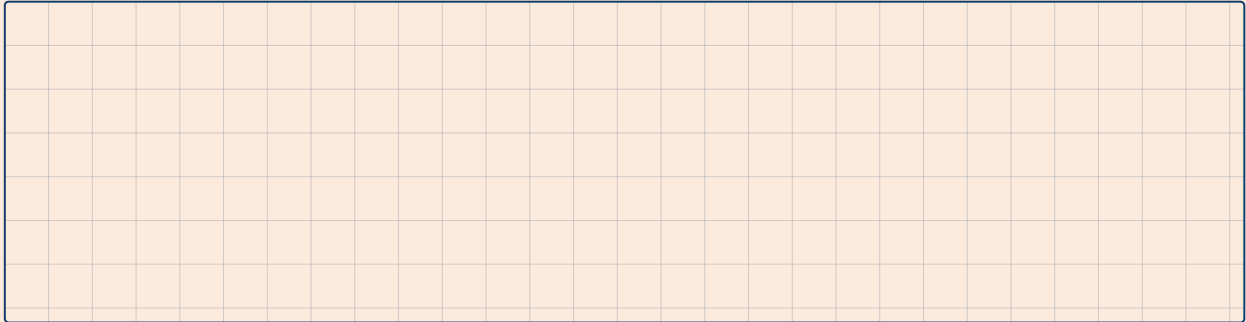


SOLVE FOR THE MISSING ANGLE

- 1 Add the two known angles: 50 degrees plus 60 degrees makes 110 degrees.
- 2 Subtract 110 degrees from 180 degrees to find the third angle.
- 3 The missing angle is 70 degrees.

WARM-UP

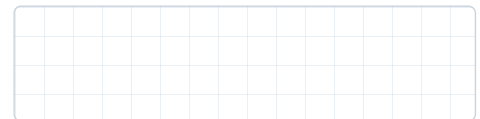
Sketch each triangle in the space below and work out the missing angles.



1. Sketch a triangle with angles of 35° and 65° . Work out the third angle and mark it.
2. Sketch a triangle with angles of 20° and 115° . Work out the third angle and mark it.
3. Sketch an isosceles triangle with a top angle of 30° . Work out each base angle and mark them.

PRACTICE

- 1 A builder measures two angles of a triangular frame as **20 degrees** and **80 degrees**. What is the third angle? _____
- 2 In making a triangular ramp, the angles measured are **10 degrees** and **85 degrees**. Find the third angle. _____
- 3 A carpenter cuts a triangle for a roof with angles **15 degrees** and **140 degrees**. What must the third angle be? _____
- 4 When building an isosceles triangular support with top angle **100 degrees**, the two base angles are equal. What is each base angle? _____



? ALWAYS, SOMETIMES, NEVER

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

- | | |
|---|--|
| a. The three angles of any triangle add up to 180 degrees. ☐ | c. If two angles of a triangle are equal the third must be different. ☐ |
| b. A triangle can have one angle of 200 degrees. ☐ | d. An isosceles triangle has a top angle of 30 degrees. ☐ |

