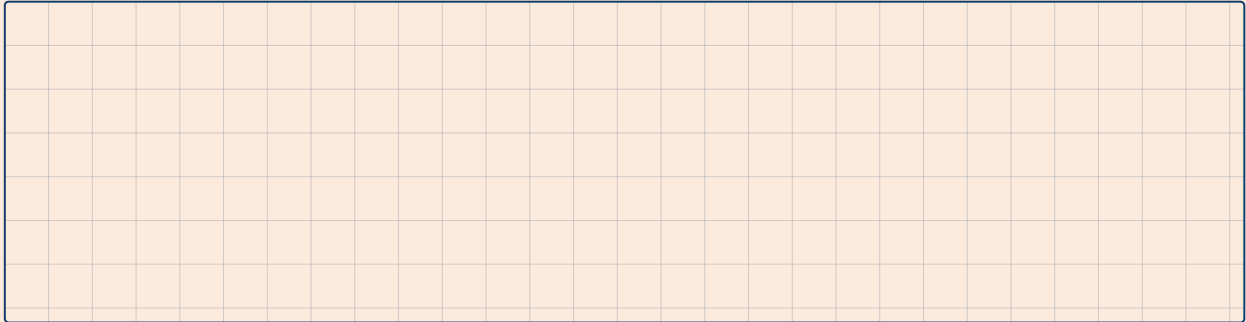


FIND THE MISSING ANGLE ON A LINE

- 1 Start with the straight line rule that all angles add to 180 degrees.
- 2 Subtract the known angle from 180 degrees.
- 3 140 degrees is given so the missing angle is 180 minus 140.

WARM-UP

Sketch each one in the space below, then write the missing angles.



1. Sketch a straight line with one ray from it so that one angle is 150° . Write the size of the other angle.
2. Sketch angles of 100° and 120° meeting at a point. Write the third angle that completes the full turn.
3. Sketch two crossing lines with one angle of 65° . Write the other three angles.

PRACTICE

- 1 In the classroom the teacher draws a straight line on the board with one angle of 135 degrees. What is the other angle? _____
- 2 Two straight roads cross in the school yard and one angle is marked 70 degrees. What can we say about the angle facing it? _____
- 3 The classroom clock hands and a ruler form three angles on a straight line. Two of them are 75 degrees and 55 degrees. What is the third angle? _____

? ALWAYS, SOMETIMES, NEVER

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

- | | |
|---|--|
| a. Angles on a straight line add to 180 degrees. ☐ | c. If one of two angles on a straight line is 140 degrees, the other is 60 degrees. ☐ |
| b. Vertically opposite angles are equal. ☐ | d. Vertically opposite angles use the same rule as angles on a straight line. ☐ |

