# ❋ 2.1. Angles

Which three of these pieces fit together to make a complete circle?
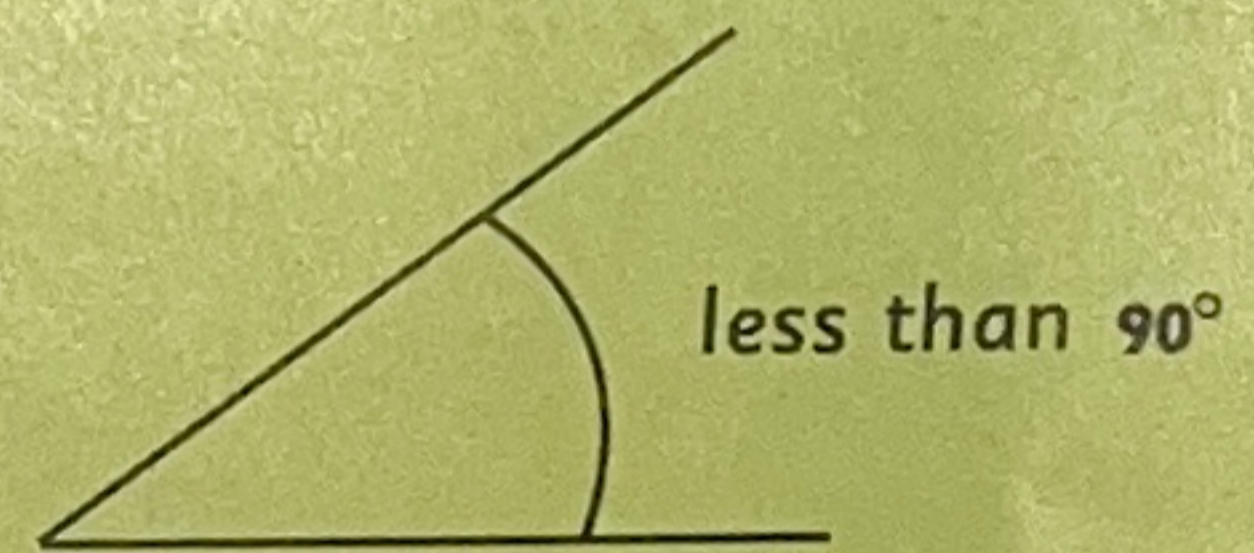
A
75°

B
110°

C
95°

D
135°

E
155°
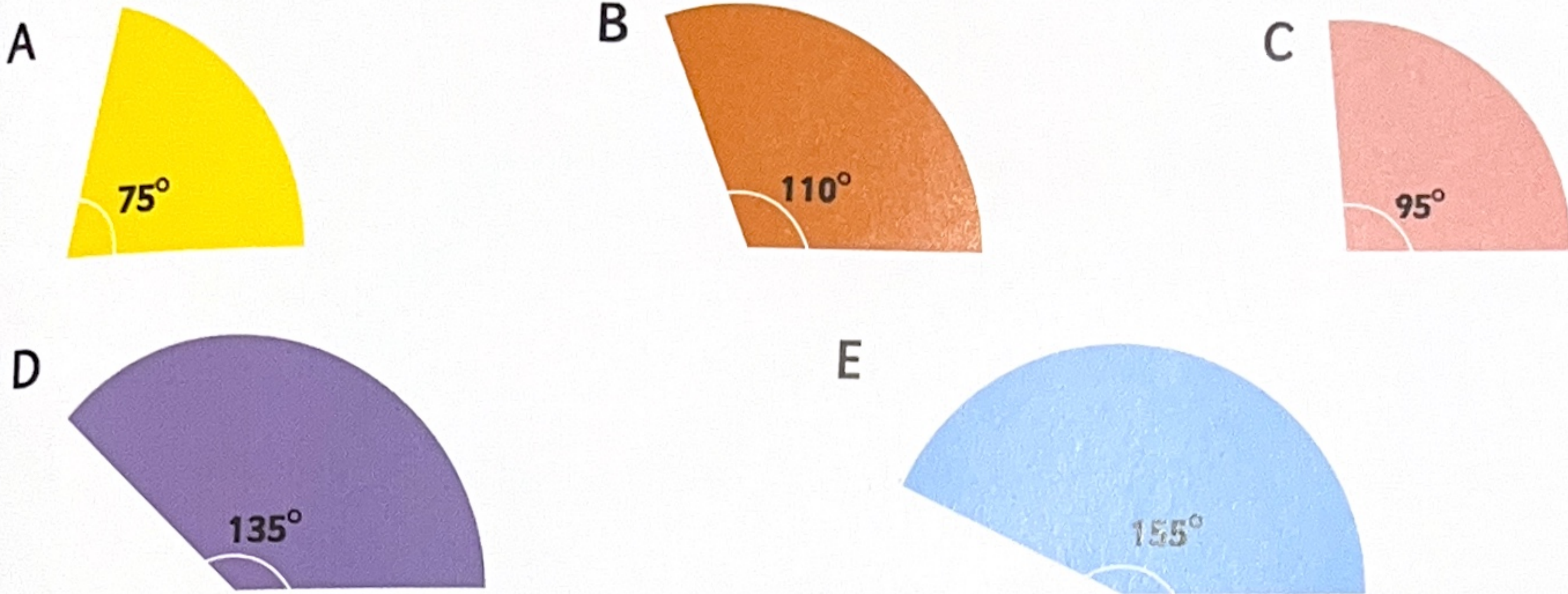
This is a **360°** protractor. You can use the letters placed around the protractor to write secret codes.



anti-clockwise  clockwise
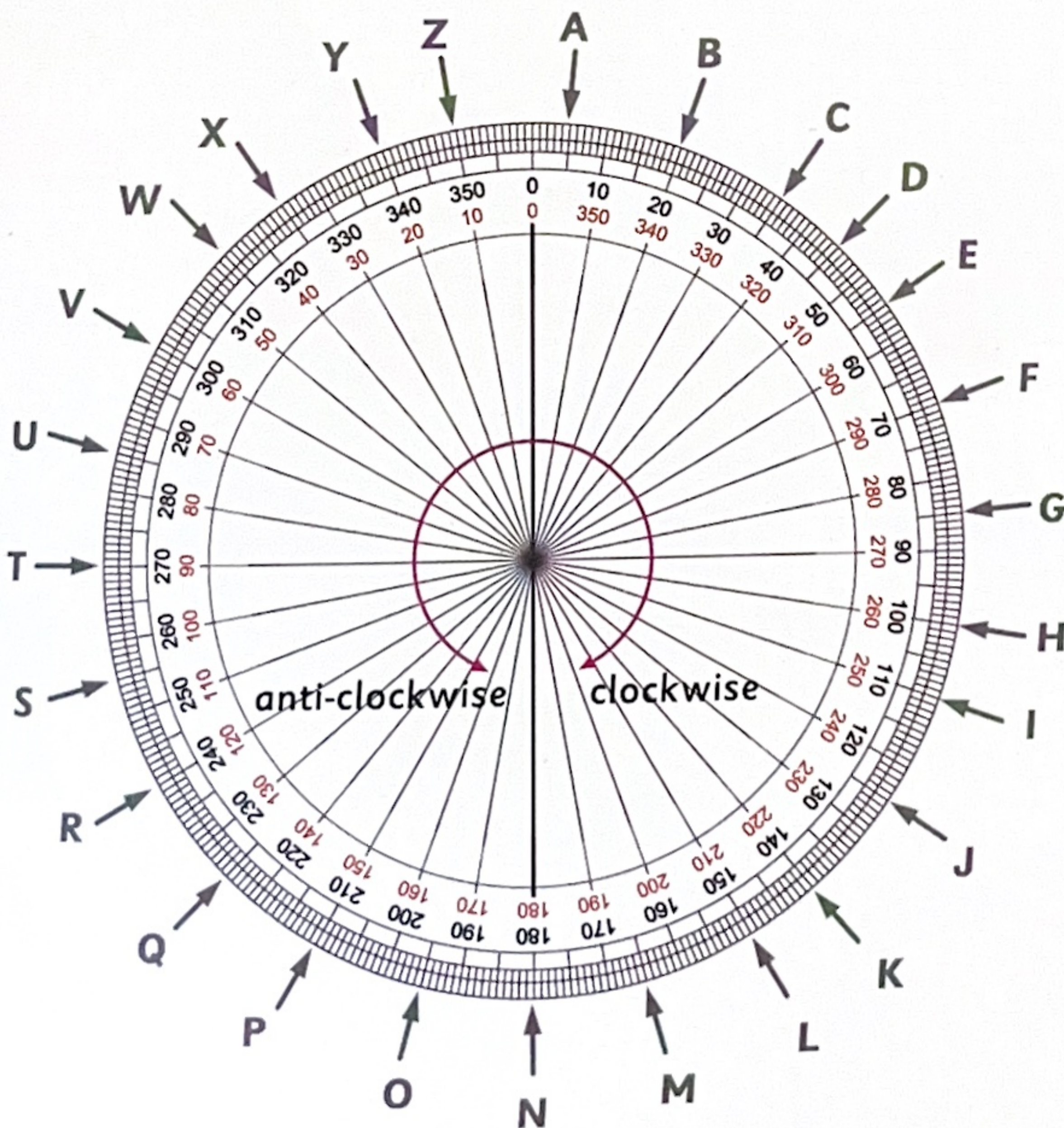
**Look and learn**

◆ **Acute angle:**

less than **90°**

◆ **Obtuse angle:**

greater than **90°**
less than **180°**
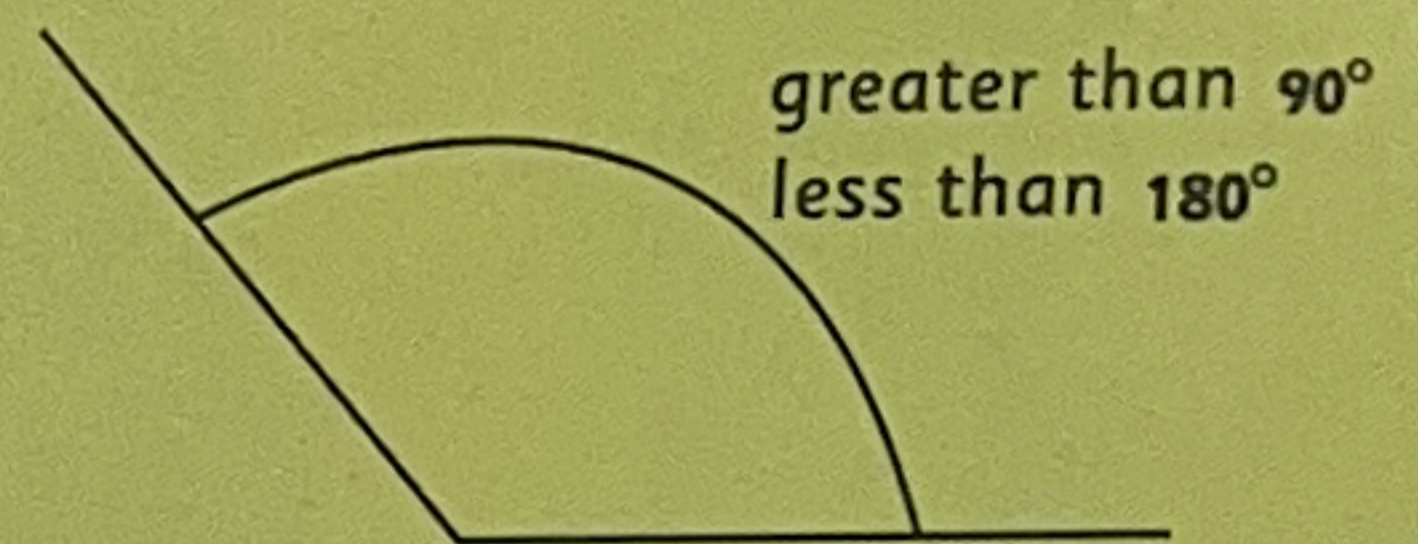
◆ **Right angle:** an angle that is exactly 90°.

180°

line A    line B
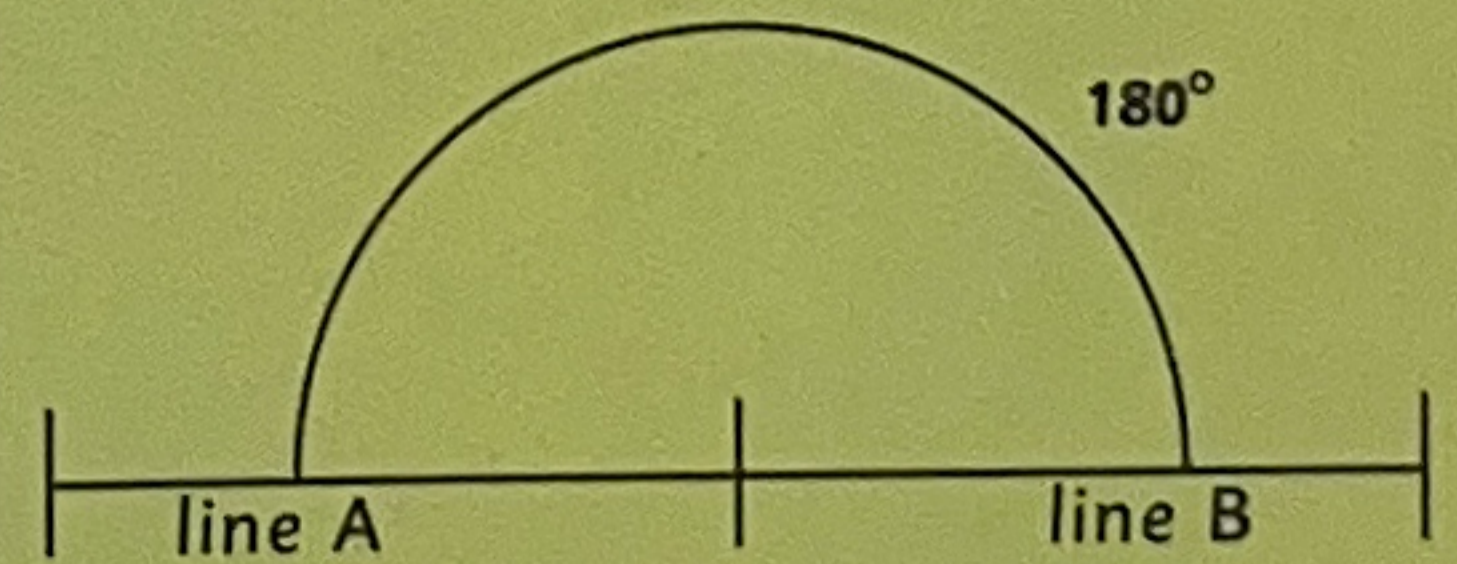
◆ **Straight angle:** when lines meet to make one straight line, it is an angle of 180°.

Use the **360°** protractor decoder to answer these questions.

a) What letter is at clockwise **150°**?

b) What letter is at anti-clockwise **250°**?

c) What is the angle from **0°** to H clockwise?

d) What is the angle from **0°** to H anti-clockwise?

e) Start at **0°**. Follow these instructions.
For each new instruction, start where you finished the prev    is turn.

Write down the letter you stop on after each instruction.
- Turn clockwise **35°**.
- Turn clockwise **75°**.
- Turn anti-clockwise **230°**.
- Turn clockwise **155°**.
- Turn clockwise **115°**.
- Turn anti-clockwise **95°**.

What word do the six letters make?

f) Choose a word of your own, write instructions to make the word using the protractor decoder. Ask a partner to decode your word.