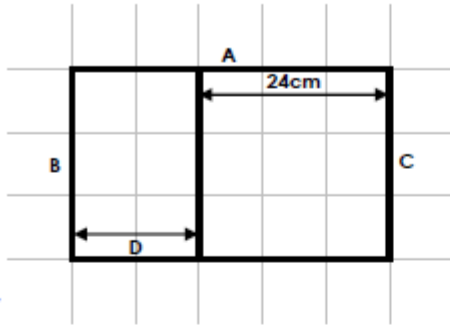**TASK 2.2**

Lengths and Angles in Shapes

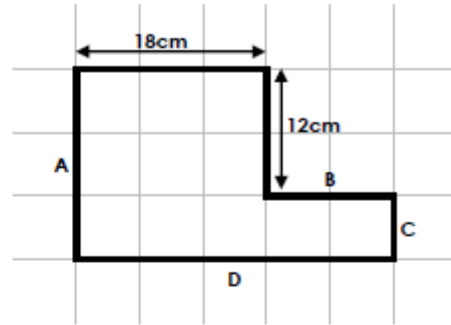**5a. Calculate the length of sides A, B, C and D.**
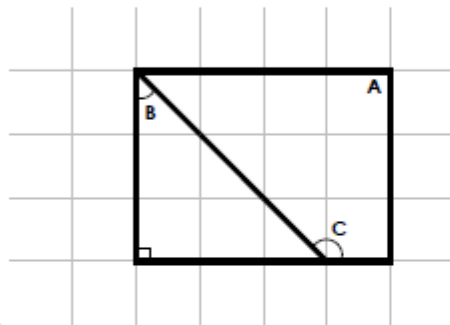
A

24cm

B   C

D

VF

Lengths and Angles in Shapes
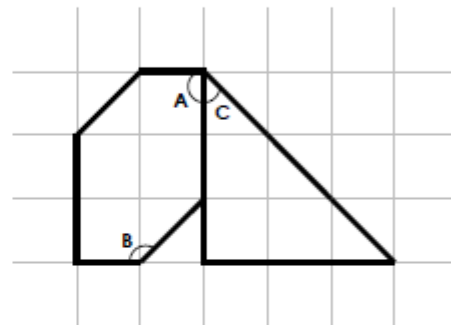
5b. Calculate the length of sides A, B, C and D.

18cm

12cm

A   B

C

D

VF

6a. Calculate angles A, B and C.

A

B

C
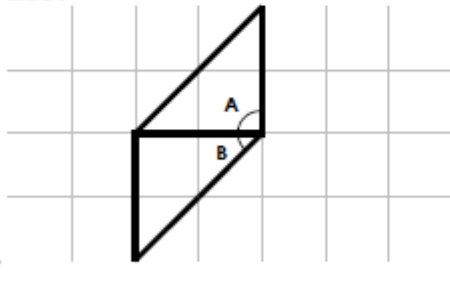
VF

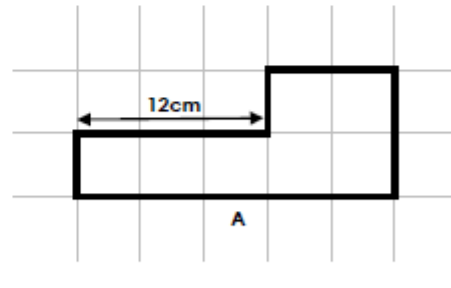**6b. Calculate angles A, B and C.**

A   C

B

VF

7a. Angle A and Angle B total 145°. True or false?
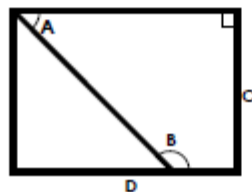
A

B

VF

7b. Side A is 24cm. True or false?
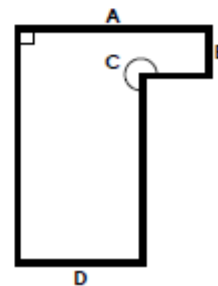
12cm

A

VF

8a. Match the lengths and angles to the shape.

1. 12cm
2. 135°
3. 45°
4. 9cm

A

C

B

D

VF

8b. Match the lengths and angles to the shape.

1. 16cm
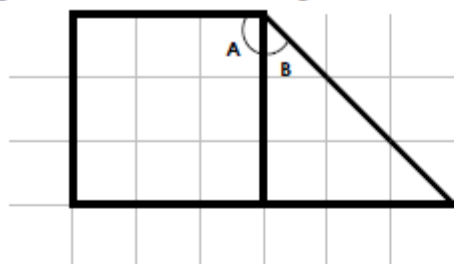2. 270°
3. 10cm
4. 4cm

A

C   B

D

VF

Lengths and Angles in Shapes

4a. Lola thinks she has picked the correct degrees for the total of angle A and angle B.
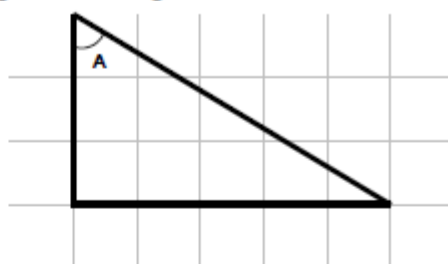

| 135° | 270° ✓ | 90° |

Do you agree? Explain why.

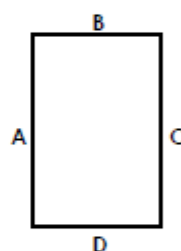**5a.** Jack has a rectangle with a perimeter between 20cm and 30cm. Sides A and C are 4cm longer than sides B and D.

What length is each side? Give 3 possible answers.

6a. Sophie and Will are calculating angles in a shape.

> If a triangle has one angle of 87° and another of 36°, the last angle must be 58°.

Sophie

> If a triangle has one angle of 87° and another of 36°, the last angle must be 57°.

Will

Who is correct? Why?

Lengths and Angles in Shapes

4b. Alfie thinks he has picked the correct degrees for angle A.

| 90° | 60° | 45° ✓ |

Do you agree? Explain why.
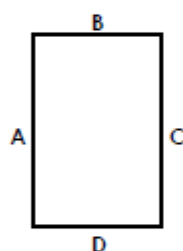
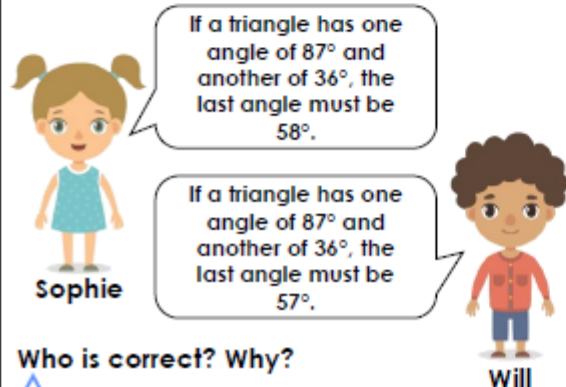**5b.** Mia has a rectangle with a perimeter between 30cm and 40cm. Sides B and D are 5cm shorter than sides A and C.

What length is each side? Give 3 possible answers.
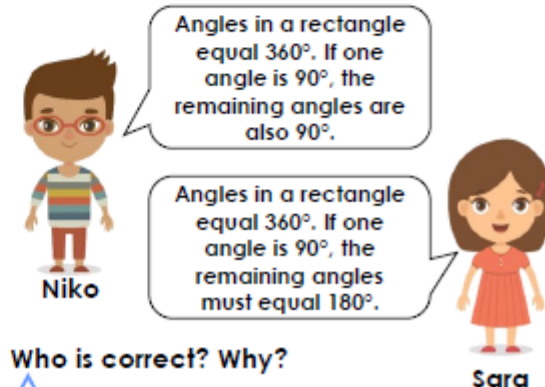
6b. Niko and Sara are calculating angles in a shape.

> Angles in a rectangle equal 360°. If one angle is 90°, the remaining angles are also 90°.

Niko

> Angles in a rectangle equal 360°. If one angle is 90°, the remaining angles must equal 180°.

Sara

Who is correct? Why?