Ratio and Proportion

Scale Drawing

1. **Fill in the blanks to correctly complete the statements.**

If 6 cm represents 1 m on a scale drawing, then:

12 cm represents ☐ m

18 cm represents ☐ m

3 cm represents ☐ m

60 cm represents ☐ m

If 8 cm represents 1 m on a scale drawing, then:
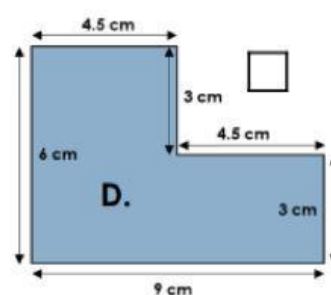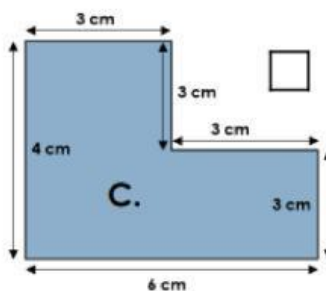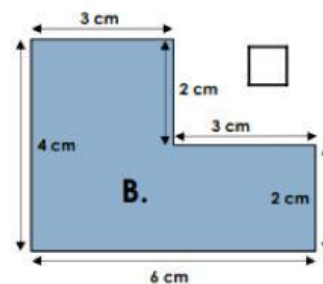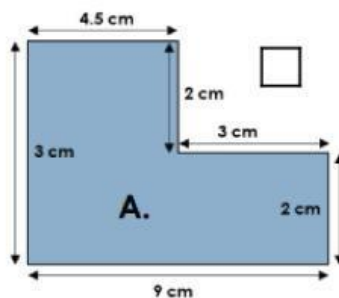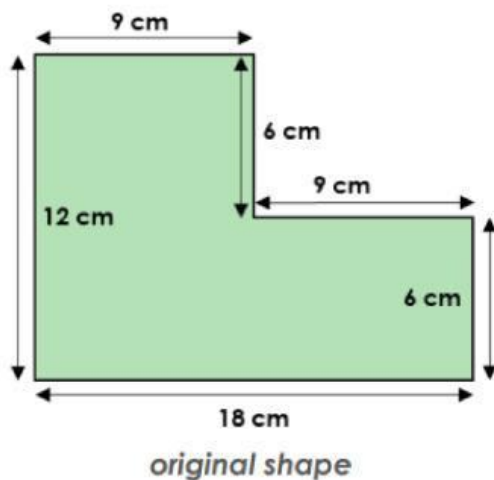
2 m is represented by ☐ cm

4 m is represented by ☐ cm

10 m is represented by ☐ cm

0.25 m is represented by ☐ cm
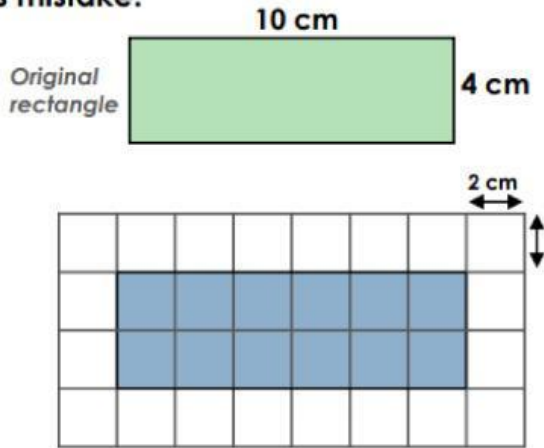
VF

2. **Tick the scale drawings that match the original shape.**
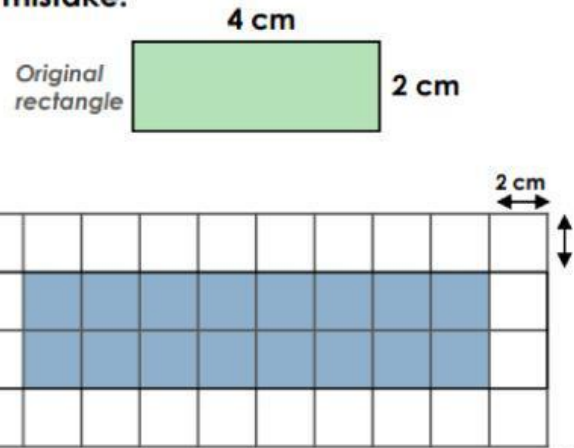
9 cm

6 cm

9 cm

12 cm

6 cm

18 cm

original shape

4.5 cm

2 cm

3 cm

3 cm

A.

2 cm

9 cm

☐

3 cm

2 cm

4 cm

B.

3 cm

2 cm

6 cm

☐

3 cm

3 cm

3 cm

4 cm

C.

3 cm

6 cm

☐

4.5 cm

3 cm

6 cm

D.

4.5 cm

3 cm

9 cm

☐

VF

2a. Aarav thinks he's drawn a scale diagram of the original rectangle. Explain his mistake.

Original rectangle

10 cm

4 cm

2 cm

2b. Nadia thinks she's drawn a scale diagram of the original rectangle. Explain her mistake.

Original rectangle

4 cm

2 cm

2 cm

R

R

3. The children are discussing the original shape and the scale drawing below. Explain who is correct and who is incorrect.

Subhan: Each square represents 4 cm because 24 and 16 are both divisible by 4.

Safa: I can use division to work out what each square represents.

Stella: Dividing 24 by 3 small squares will tell me the measurement each square represents.

24 cm

16 cm

original shape

R