Ratio and Proportion

Scale Factors

2a. Rebecca says,

A scale factor of two means you multiply each side of the original shape by two.

Is she correct?

2b. Nasir says,

A scale factor of three means the new shape is twice as big as the original shape.
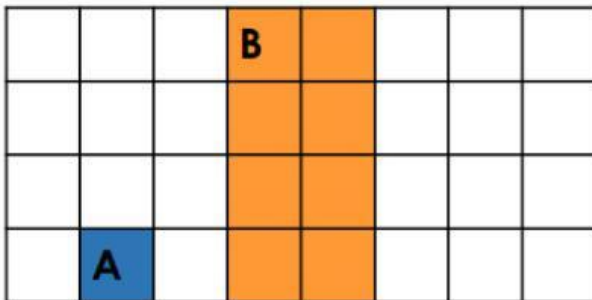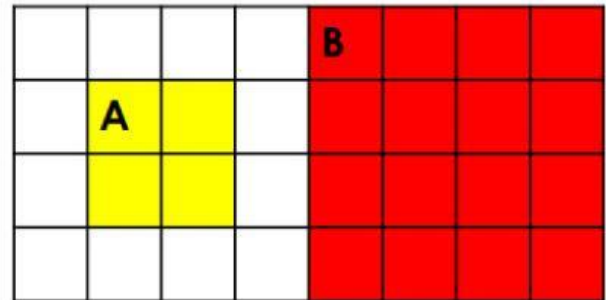
Is he correct?

4a. True or false?
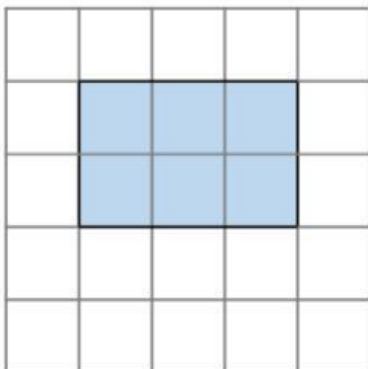Shape A has been increased by a scale factor of 3 to create shape B.

B

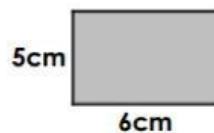A

4b. True or false?
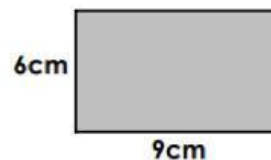Shape A has been increased by a scale factor of 2 to create shape B.

B

A

---

1. If the shape below (drawn on 1cm² paper) was enlarged by a scale factor of 3, what would its new measurements be? Tick the correct option.
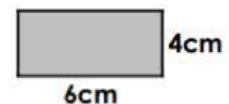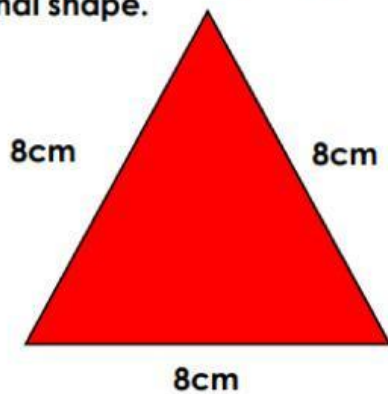
A.

5cm

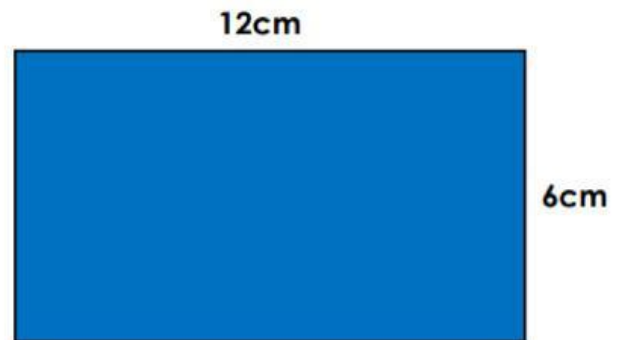6cm

B.

6cm

9cm

C.

4cm

6cm

1a. This shape has been enlarged by a scale factor of 4. Find the perimeter of the original shape.

8cm   8cm

8cm

1b. This shape has been enlarged by a scale factor of 3. Find the perimeter of the original shape.

12cm

6cm

2a. Sarah says,

If I enlarge the shape by a scale factor of 2, the new perimeter will be 48cm.

5cm

3cm

2b. Laurie says,

If I enlarge the shape by a scale factor of 3, the new perimeter will be 54cm.

7cm

2cm