Area and Perimeter

Shapes with same area

5a. Circle the shapes with an area of 84cm².

A.

B.

not to scale

C.
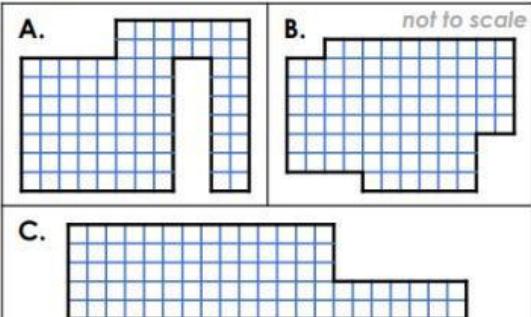
☆ □ = 1cm²   VF

5b. Circle the shapes with an area of 65cm².

A.

not to scale

B.

C.
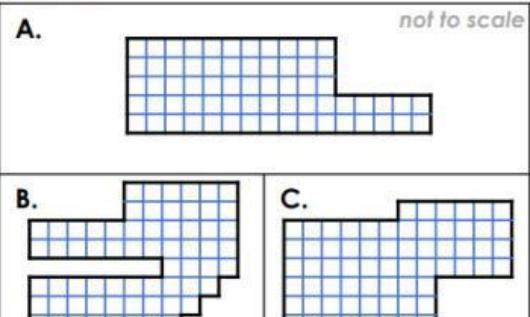
☆ □ = 1cm²   VF

8a. All of these rectangles have an area of 36cm².

A   0.5cm

B   12cm

C   4cm
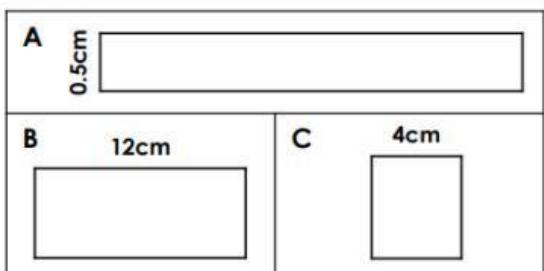
Complete the missing lengths.

☆ *not to scale*   VF

8b. All of these rectangles have an area of 32cm².

A   2cm

B   4cm

C   0.5cm
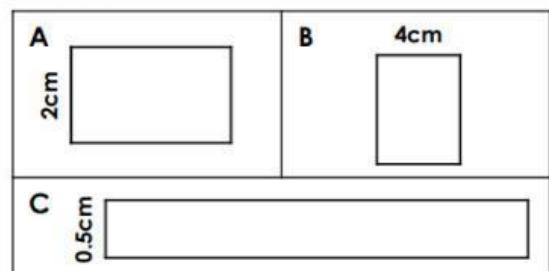
Complete the missing lengths.

☆ *not to scale*   VF

5. Match these shapes to their area.

1cm   1cm

1cm   A

1cm   1cm

1cm   B

1cm   1cm

1cm   C
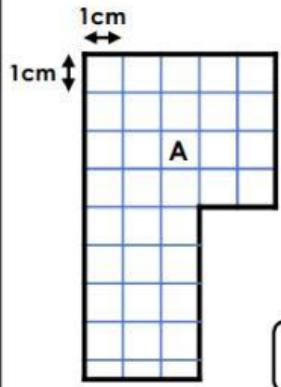
33.5cm²   33cm²

☆ *not to scale*   VF   HW/Ext
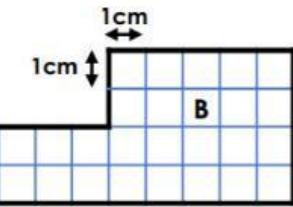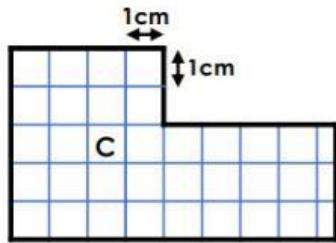
3a. Zak is experimenting with the area of rectangles.

He says,

"If a rectangle has an area of 24cm², the length of it could be 6cm."

Is he correct? Explain why.

**3b.** Ruby is experimenting with the area of rectangles.

She says,
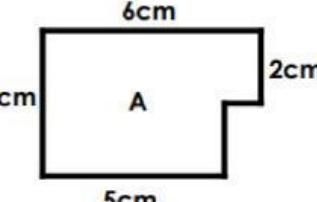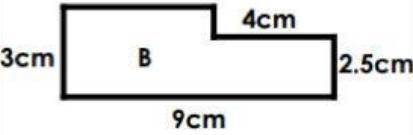
"If a rectangle has a length of 8cm, and the unknown length is an integer, the area could be 27cm²."

Is she correct? Explain why.

6. Justin has sorted shapes into a table.

Area is 22cm²	Area is not 22cm²
A — 6cm, 2cm, 4cm, 5cm	**B** — 4cm, 3cm, 2.5cm, 9cm

Shape C: 4cm, 4cm, 2cm, 7cm
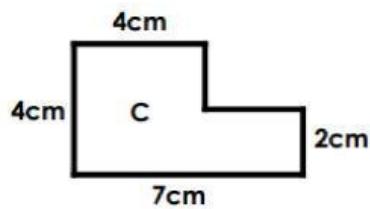
Is he correct? Prove it.
Where would shape C go in the table?

not to scale

RPS
HW/Ext