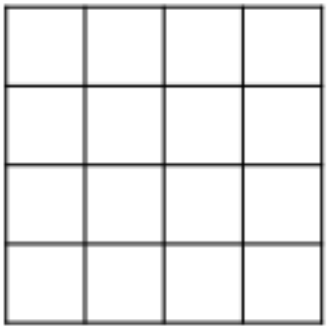
Area of Compound Shapes

7a. Each square has an area of $1.5m^2$.



Draw 3 different compound shapes that have an area of $12m^2$.

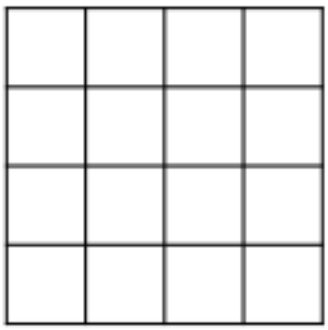
GD

Not to scale

PS

Area of Compound Shapes

7b. Each square has an area of $2.2cm^2$.



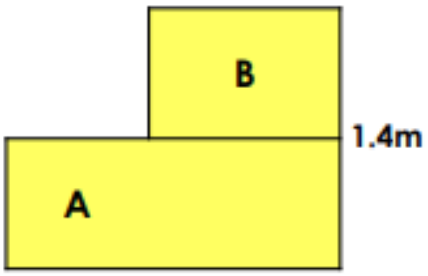
Draw 3 different compound shapes that have an area of $22cm^2$.

GD

Not to scale

PS

8a. Add the missing lengths to make the following statement correct.



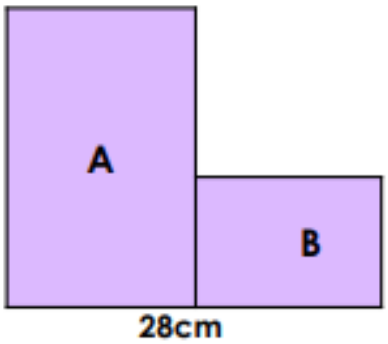
A has an area that is twice as large as B.

GD

Not to scale

PS

8b. Add the missing lengths to make the following statement correct.



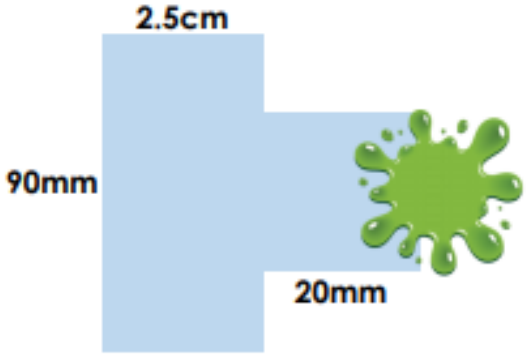
A has an area that is twice as large as B.

GD

Not to scale

PS

9a. Flora thinks the area of the shape must be smaller than $30cm^2$.



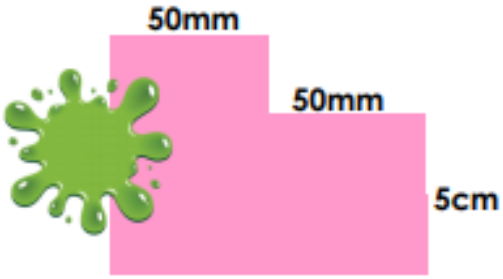
Is she correct? Convince me.

GD

Not to scale

R

9b. Saul thinks the area of the shape must be greater than $35cm^2$.



Is he correct? Convince me.

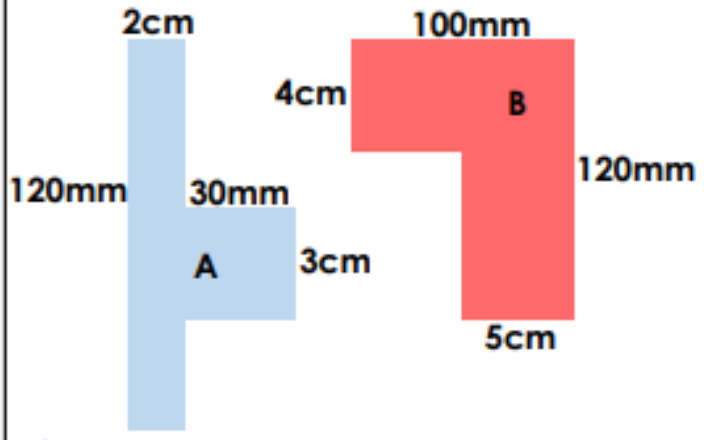
GD

Not to scale

R

Area of Compound Shapes

4a. Find the area of the shapes. Which shape has the larger area?

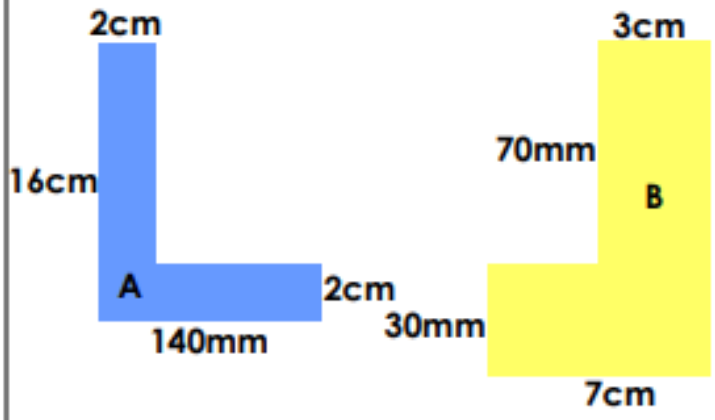


Not to scale

VF

Area of Compound Shapes

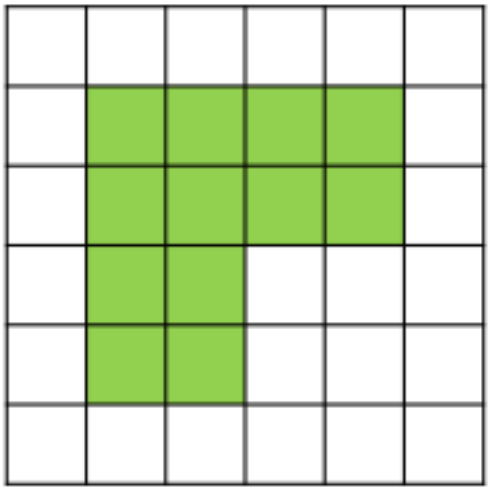
4b. Find the area of the shapes. Which shape has the larger area?



Not to scale

VF

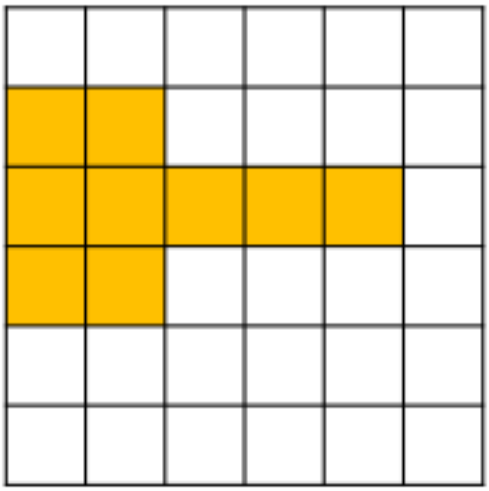
5a. The side of each square measures 30mm. What is the area of the shape in cm^2?



Not to scale

VF

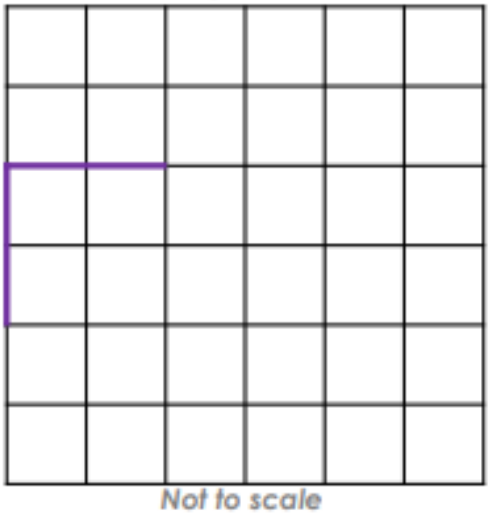
5b. The side of each square measures 20mm. What is the area of the shape in cm^2?



Not to scale

VF

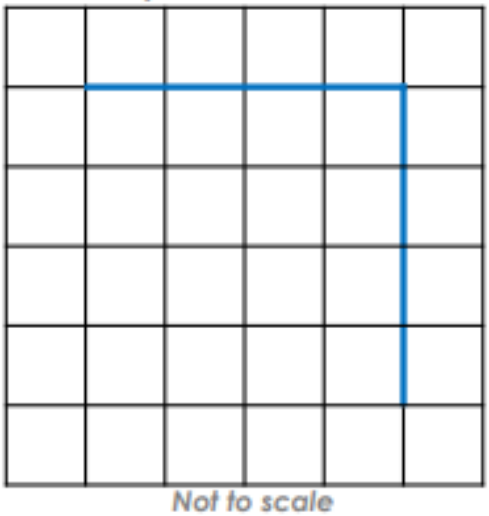
6a. Complete the compound shape below so that it has an area of $72cm^2$. The side of each square is 30mm.



Not to scale

VF

6b. Complete the compound shape below so that it has an area of $48cm^2$. The side of each square is 20mm.

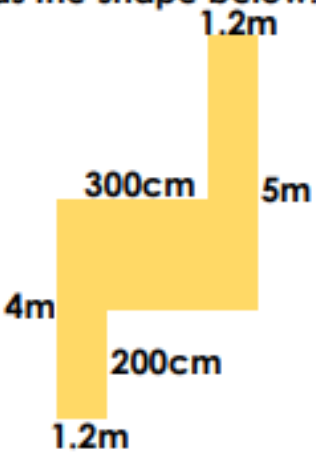


Not to scale

VF

Area of Compound Shapes

7a. Draw a different compound shape made up of three rectangles with the same area as the shape below.

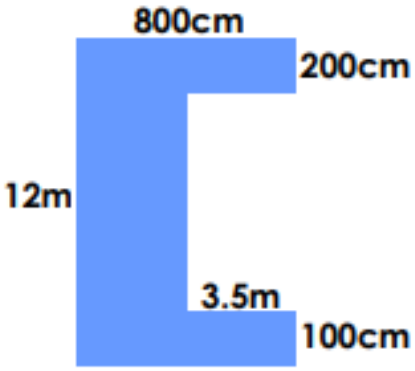


Not to scale

VF

Area of Compound Shapes

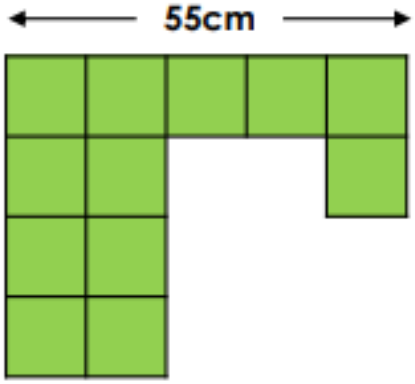
7b. Draw a different compound shape made up of three rectangles with the same area as the shape below.



Not to scale

VF

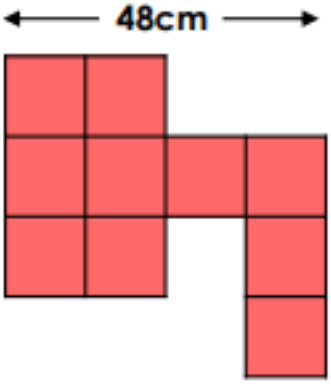
8a. Calculate the area of the compound shape below in cm^2.



Not to scale

VF

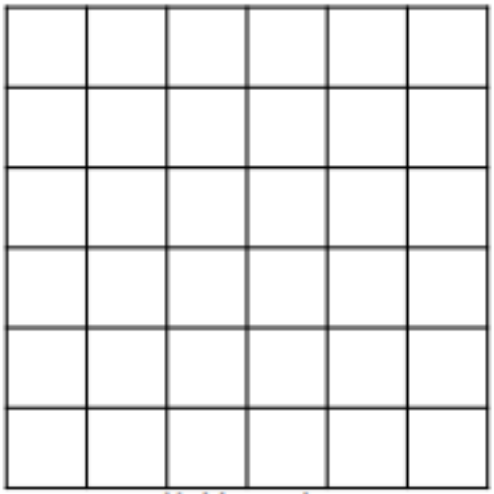
8b. Calculate the area of the compound shape below in m^2.



Not to scale

VF

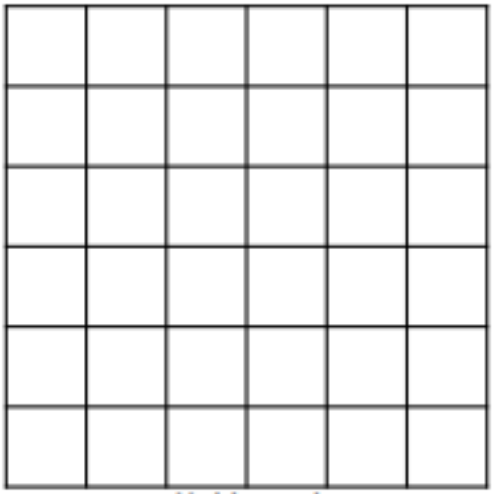
9a. Draw a compound shape with an area of 40.5cm^2 where the side of each square equals 15mm.



Not to scale

VF

9b. Draw a compound shape with an area of 750mm^2 where the side of each square equals 2.5cm.



Not to scale

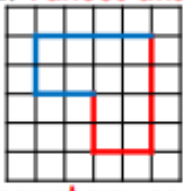
VF

ANSWERS

Varied Fluency
Area of Compound Shapes

Developing

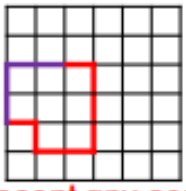
1a. A = 16m²; B = 27m²
B has the larger area.
2a. 63m²
3a. Various answers, for example:



Accept any compound shape with an area of 12cm² (12 squares).

Expected

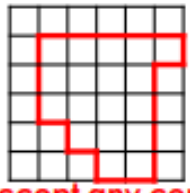
4a. A = 33cm²; B = 80cm²
B has the larger area.
5a. 108cm²
6a. Various answers, for example:



Accept any compound shape with an area of 72cm². (8 squares)

Greater Depth

7a. Accept any compound shape made up of three rectangles with an area of 14.4m². For example, a compound shape made of the following rectangles:
1.2cm x 3cm, 1.2cm x 7cm, 1.2cm x 2cm.
8a. 1,452cm²
9a. Various answers, for example:

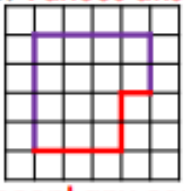


Accept any compound shape with an area of 40.5cm². (18 squares)

Varied Fluency
Area of Compound Shapes

Developing

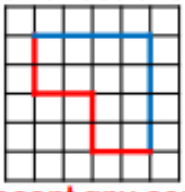
1b. A = 56cm²; B = 33cm²
A has the larger area.
2b. 28m²
3b. Various answers, for example:



Accept any compound shape with an area of 14cm² (14 squares).

Expected

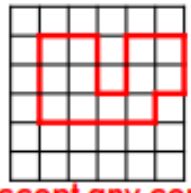
4b. A = 56cm²; B = 42cm²
A has the larger area.
5b. 36cm²
6b. Various answers, for example:



Accept any compound shape with an area of 48cm². (12 squares)

Greater Depth

7b. Accept any compound shape made up of three rectangles with an area of 64.5m². For example, a compound shape made of the following rectangles:
2.5m x 5m, 6m x 6m, 4m x 4m.
8b. 120cm²
9b. Various answers, for example:



Accept any compound shape with an area of 750mm². (12 squares)