

Monday (hard) – LO: to identify when shapes have the same area.

Varied fluency

9a. Circle all rectilinear shapes with an area of 20cm^2 .

$\square = 1.25\text{cm}^2$

VF

10a. Draw a different rectilinear shape to the one below with the same area.

$\square = 15\text{mm}^2$

VF

11a. Using 1cm^2 squared paper, draw a composite rectilinear shape with an area of 360mm^2 . Include a length of 1.5cm . Label the lengths of each side so that at least two conversions take place.

VF

12a. All of these rectangles have an area of 75cm^2 . Complete the missing lengths. Write the lengths in mm, cm and m.

1.5cm A
 0.15m B 25mm C

not to scale

VF

Reasoning and problem solving

7b. Maggie says,

I can draw a six-sided and an eight-sided rectilinear shape that have an area of 30cm^2 and a perimeter that is greater than 30cm .

Draw two shapes to show that Maggie is correct.

PS

8b. True or false? All of these shapes have the same area.

0.14m 25mm C
 25mm 100mm 8cm A
 0.12m 15mm 1.5cm 0.16m
 5cm

Explain your answer.

not to scale

R

9b. Jack is sorting shapes into a table.

Area $< 28\text{cm}^2$	Area $> 28\text{cm}^2$
<p>A</p>	<p>B</p>

Is he correct? Prove it. Where in the table would this shape go?

C

not to scale

R