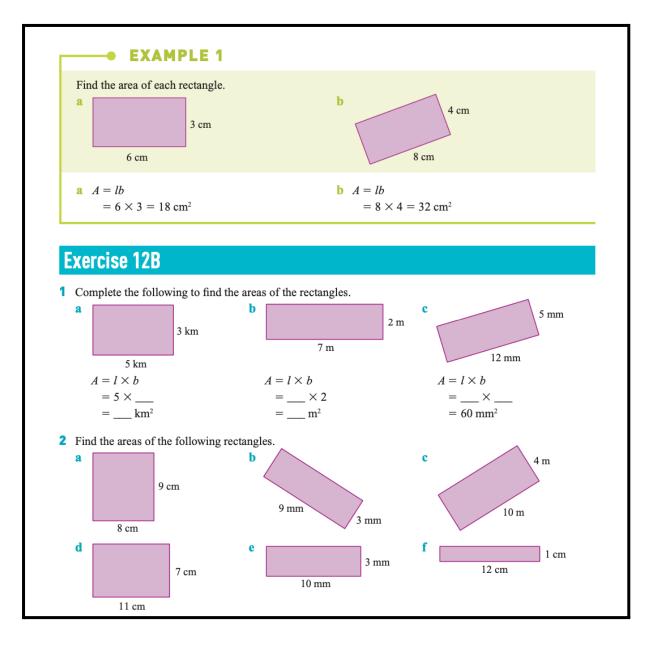
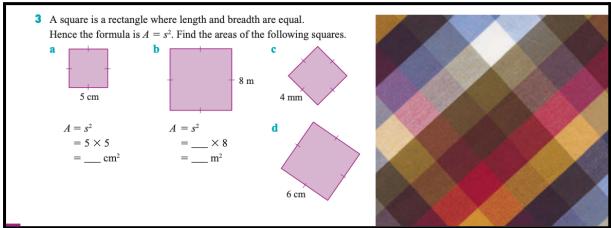
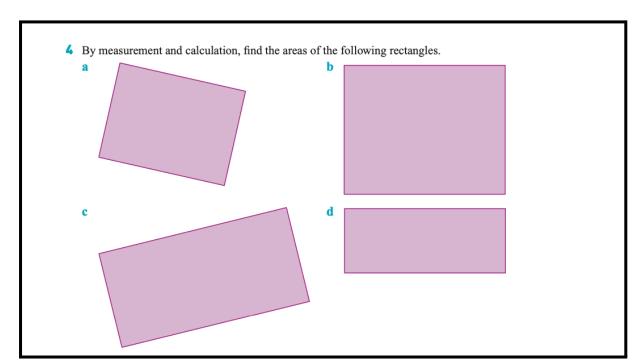
Success Criteria I know the rule to calculate the area of a rectangle.

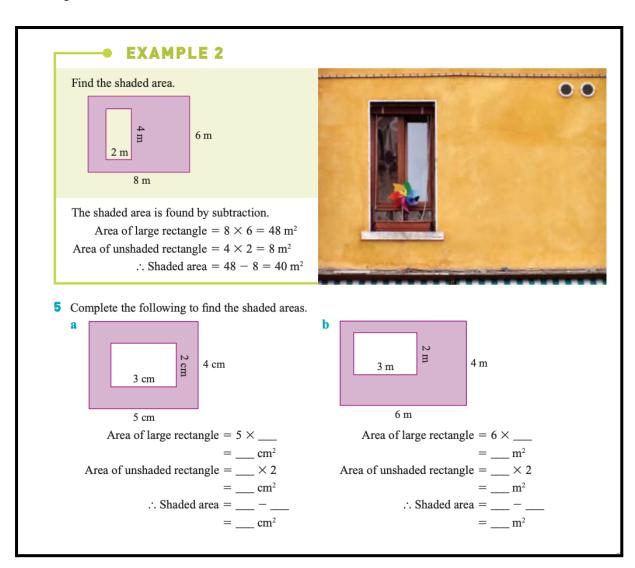
I know my multiplication tables

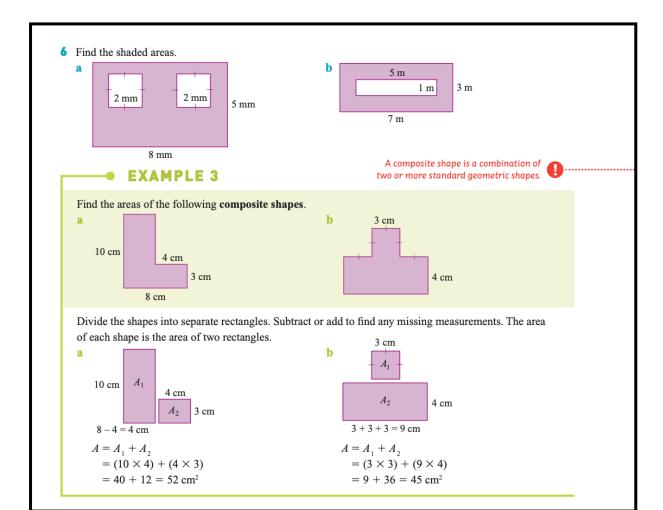


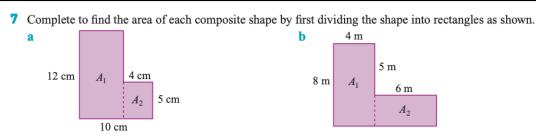




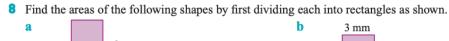
Challenge

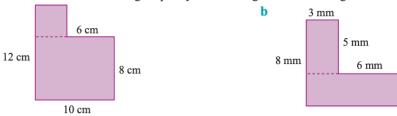


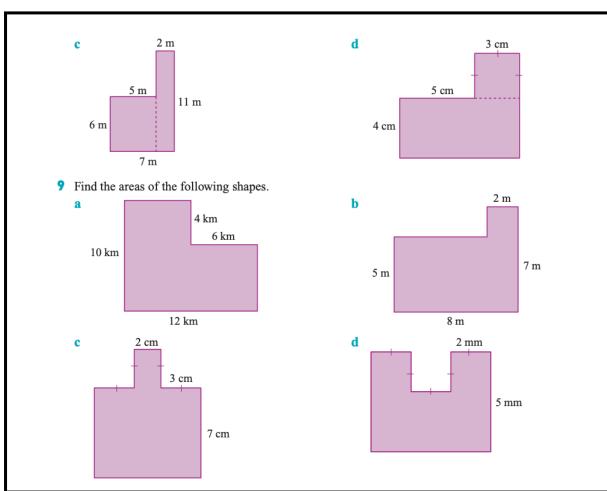


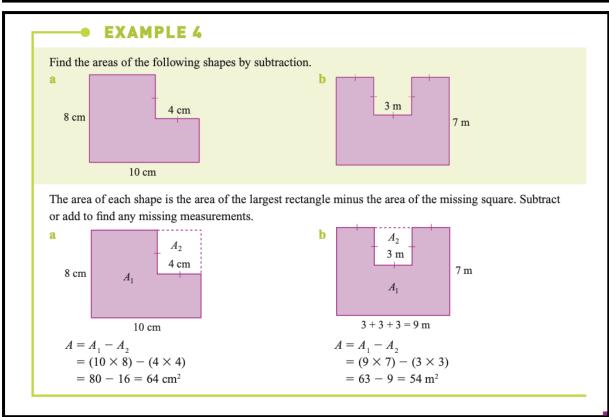






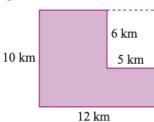






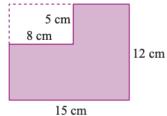
Extension

10 Complete to find the area of each shape by subtraction.



$$A = \text{area largest} - \text{area smallest}$$

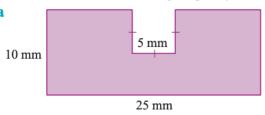
= $(12 \times \underline{\hspace{1cm}}) - (6 \times \underline{\hspace{1cm}})$
= $\underline{\hspace{1cm}} - \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{km}^2$

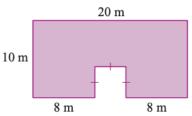


$$A = \text{area largest} - \text{area smallest}$$

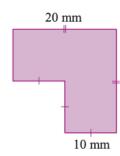
= $(15 \times \underline{\hspace{1cm}}) - (8 \times \underline{\hspace{1cm}})$
= $\underline{\hspace{1cm}} - \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \text{cm}^2$

11 Find the areas of the following shapes by subtraction.

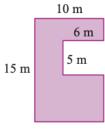




c



d



Check your answers

1 a $A = 5 \times 3 = 15 \text{ km}^2$ **b** $A = 7 \times 2 = 14 \text{ m}^2$

 $A = 12 \times 5 = 60 \text{ mm}^2$

2 a 72 cm²

b 27 mm²

 $c 40 \text{ m}^2$

d 77 cm²

e 30 mm²

f 12 cm²

```
3 a A = 5 \times 5 = 25 \text{ cm}^2 b A = 8 \times 8 = 64 \text{ m}^2
     c 16 mm<sup>2</sup>
                                             d 36 cm<sup>2</sup>
 4 a 12 cm<sup>2</sup> b 20 cm<sup>2</sup> c 18 cm<sup>2</sup>
                                                                 d 10 cm<sup>2</sup>
 5 a Area of large rectangle = 5 \times 4 = 20 \text{ cm}^2
        Area of unshaded rectangle = 3 \times 2 = 6 \text{ cm}^2
        \therefore Shaded area = 20 - 6 = 14 \text{ cm}^2
     b Area of large rectangle = 6 \times 4 = 24 \text{ m}^2
        Area of unshaded rectangle = 3 \times 2 = 6 \text{ m}^2
        \therefore Shaded area = 24 - 6 = 18 m<sup>2</sup>
 6 a 32 mm<sup>2</sup>
                                              b 16 \text{ m}^2
 7 a A = (12 \times 6) + (5 \times 4) = 72 + 20 = 92 \text{ cm}^2
     b A = (8 \times 4) + (6 \times 3) = 32 + 18 = 50 \text{ m}^2
 8 a 96 cm<sup>2</sup>
                                              b 42 mm<sup>2</sup>
     c 52 m<sup>2</sup>
                                              d 41 cm<sup>2</sup>
 9 a 96 km<sup>2</sup>
                                              b 44 \text{ m}^2
     c 62 cm<sup>2</sup>
                                              d 38 mm<sup>2</sup>
10 a A = (12 \times 10) - (6 \times 5) = 120 - 30 = 90 \text{ km}^2
     b A = (15 \times 12) - (8 \times 5) = 180 - 40 = 140 \text{ cm}^2
11 a 225 mm<sup>2</sup>
                                             b 184 m<sup>2</sup>
                                              d 120 m<sup>2</sup>
     c 300 mm<sup>2</sup>
```