MTH 4-17b   Homework 3   **Gold** Level
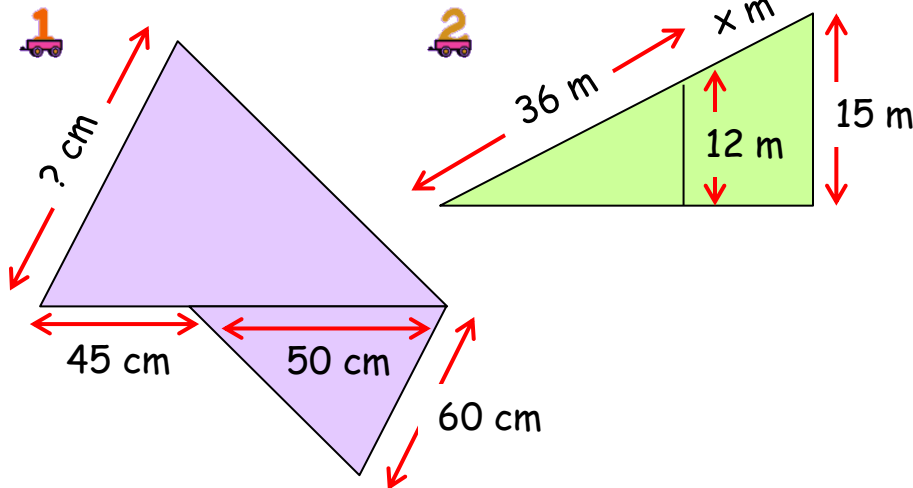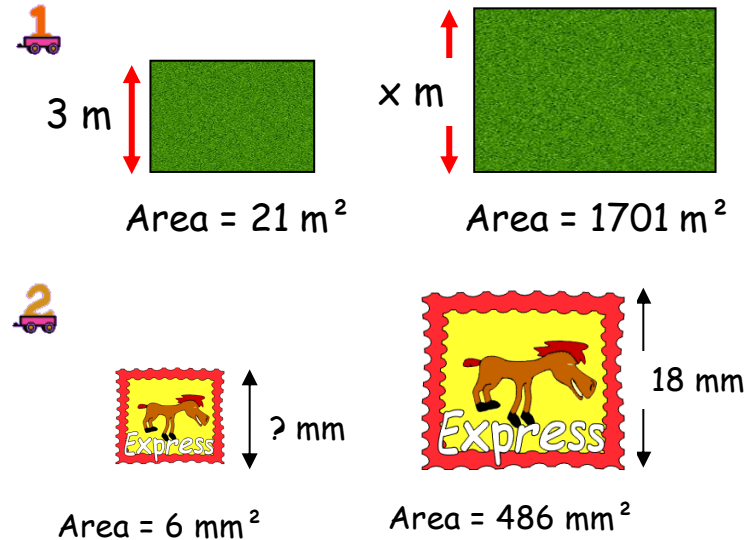
Outcome 1 - Similar Triangles

The following shapes are mathematically similar. Calculate the length of the missing sides…

1

? cm

45 cm   50 cm

60 cm

2

36 m   x m

12 m

15 m

Outcome 2 - Similar Areas

The following objects are mathematically similar. Calculate the missing sides…

1

3 m

x m

Area = 21 m²   Area = 1701 m²

2

? mm   18 mm

Area = 6 mm²   Area = 486 mm²

Outcome 3 - Similar Volumes

The following objects are mathematically similar. Calculate the missing sides…

1   15 cm   ? cm

Volume = 2 litres   Volume = 128 litres

2   ? cm   40 cm

Volume = 30 ml   Volume = 3750 ml