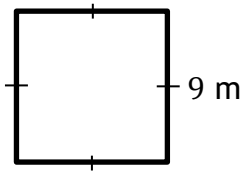
# Building Blocks - Tiling Problems

## Block 1

Find the area of the following:

a)


Complete the calculations

a) 200 cm ÷ 10 cm

b) 7 m ÷ 0.5 m

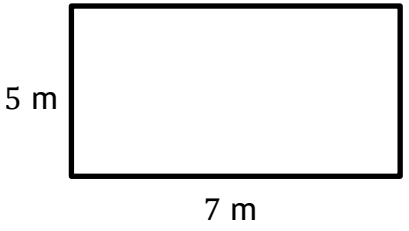
c) 2 m ÷ 50 cm

d) 5.4 m ÷ 20 cm

## Block 2

Elwyn wants to put a shed in his garden.
The base of Elwyn's shed is rectangular.
It is 4 m long and 2.5 m wide.
Elwyn wants to cover the base of the shed with carpet tiles.
The carpet tiles cost £12.50 for each 1 m².
Calculate the total cost of the carpet tiles.

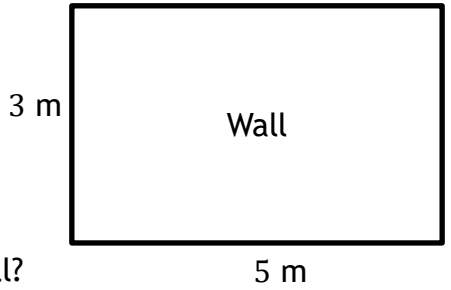
This rectangular patio is tiled using 50 cm by 50 cm square tiles.
How many tiles are used?

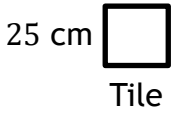



## Block 3

Trevors-tiles sells a wall tile measuring 10 cm by 20 cm.
How many of these tiles would be needed to cover a wall measuring 3 m by 2 m?

Here is a diagram of a wall.
Habiba wants to cover all of the wall with tiles.
The tiles are squares with sides of length 25 cm.
The tiles are sold in packs.
There are 12 tiles in each pack.
Each pack of tiles costs £35.50.
Habiba only has £700.
Does Habiba have enough money to tile the whole wall?

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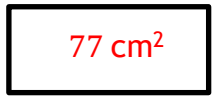
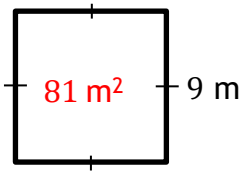
## Block 1

Find the area of the following:

a)




Complete the calculations

a) 200 cm ÷ 10 cm 20

b) 7 m ÷ 0.5 m 14

c) 2 m ÷ 50 cm 4

d) 5.4 m ÷ 20 cm 27

## Block 2

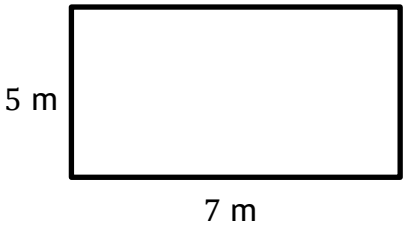
Elwyn wants to put a shed in his garden.
The base of Elwyn's shed is rectangular.
It is 4 m long and 2.5 m wide.
Elwyn wants to cover the base of the shed with carpet tiles.
The carpet tiles cost £12.50 for each 1 m².
Calculate the total cost of the carpet tiles.

$4 \times 2.5 = 10$ m²
$10 \times £12.50 = £125$

This rectangular patio is tiled using 50 cm by 50 cm square tiles.
How many tiles are used?

$700 \div 50 = 14$
$500 \div 50 = 10$

$14 \times 10 = 140$ tiles




## Block 3

Trevors-tiles sells a wall tile measuring 10 cm by 20 cm.
How many of these tiles would be needed to cover a wall measuring 3 m by 2 m?

300

Here is a diagram of a wall.
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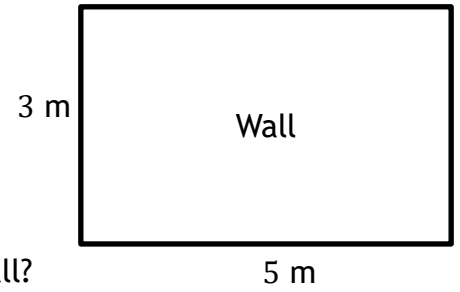
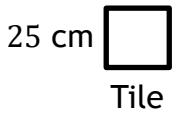
There are 12 tiles in each pack.
Each pack of tiles costs £35.50.
Habiba only has £700.
Does Habiba have enough money to tile the whole wall?




$20 \times 12 = 240$ tiles
$\rightarrow$ 20 packs

$20 \times 35.50 = £710$
No, they cost £10 more than she can afford

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