100 g of cheese costs 46 p .
[Extra] Peter buys $\mathbf{2 5 0} \mathbf{g}$ of the cheese.
How much does he pay?


A stack of 20 identical boxes is 140 cm tall.
[2016]


Not actual size

Stefan takes three boxes off the top.

How tall is the stack now?


A meal in a restaurant costs the same for each person.
For $\mathbf{1 1}$ people the total cost is $\mathbf{£ 2 5 3}$

## What is the total cost for 12 people?




Every $\mathbf{1 0 0} \mathbf{g}$ of brown bread contains $\mathbf{6 g}$ of fibre.
A loaf of bread weighs 800 g and has 20 equal slices.
How much fibre is there in one slice?



Peanuts cost 60p for $\mathbf{1 0 0}$ grams.

What is the cost of $\mathbf{3 5 0}$ grams of peanuts?
$\square$

Raisins cost $\mathbf{8 0 p}$ for $\mathbf{1 0 0}$ grams.
Jack pays $£ 2$ for a bag of raisins.

How many grams of raisins does he get?


In a zoo, the adult polar bear weighs three times more than the baby elephant.


Together they weigh 700 kilograms.
How much does the polar bear weigh?


7 Nisha's kettle holds 2 litres of water.


How many millilitres are equal to 1 cup?



How much does he pay?


The label on a pot of yoghurt shows this information.

Yoghurt
125 g
Each 125 g provides

| Energy | 430 kJ |
| :--- | ---: |
| Protein | 4.5 g |
| Carbohydrate | 11.1 g |
| Fat | 4.5 g |

How many grams of protein does 100 g of yoghurt provide?


Here is a rectangle with six identical shaded squares inside it.
[2004]


## Not actual size

The width of the rectangle is 7.2 centimetres.
Calculate the length of the rectangle.


## 11

[2002]


Not drawn
to scale

The distance from $\mathbf{A}$ to $\mathbf{B}$ is three times as far as from $\mathbf{B}$ to $\mathbf{C}$.
The distance from $\mathbf{A}$ to $\mathbf{C}$ is $\mathbf{6 0}$ centimetres.
Calculate the distance from $\mathbf{A}$ to $\mathbf{B}$.



The real-life height of the largest Russian doll is $\mathbf{1 3 . 5} \mathbf{~ c m}$
What is the real-life height of the smallest Russian doll?

$A$ and $B$ are two chain wheels on a bike.


For every 2 complete turns that wheel A makes, wheel $\mathbf{B}$ makes 5 complete turns.

If wheel A makes 150 turns, how many turns will wheel B make?



The mass of one small brick is 2.5 kg .
What is the mass of one large brick?


## 15

Here are two similar right-angled triangles.
[2017]


Write the ratio of side $a$ to side $b$.

$$
a: b=\square:
$$

The rectangle is translated from $\mathbf{A}$ to $\mathbf{B}$ and enlarged by a scale factor of 2
[Extra]
Draw the enlarged rectangle on the grid.
Use a ruler.


The shaded shape is translated from $\mathbf{A}$ to $\mathbf{B}$ and enlarged by a scale factor of 2
[2000]
Draw the enlarged shape on the grid.
Use a ruler.


18 Here are four pictures, $A, B, C$ and $D$. They are not to scale.
[Extra]


Picture A can be stretched horizontally to make picture $B$.
Show that the horizontal factor of enlargement is $\mathbf{1 . 5}$

Picture A can be stretched vertically to make picture C.
The vertical factor of enlargement is $\mathbf{1 . 2 5}$

What is the height, $h$, of picture $C$ ?

