

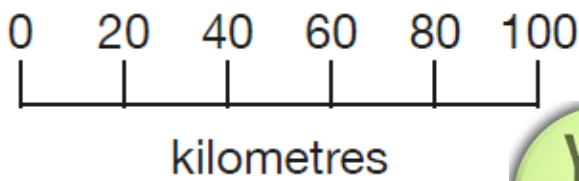


# RATIO + PROPORTION

Help Code : 015

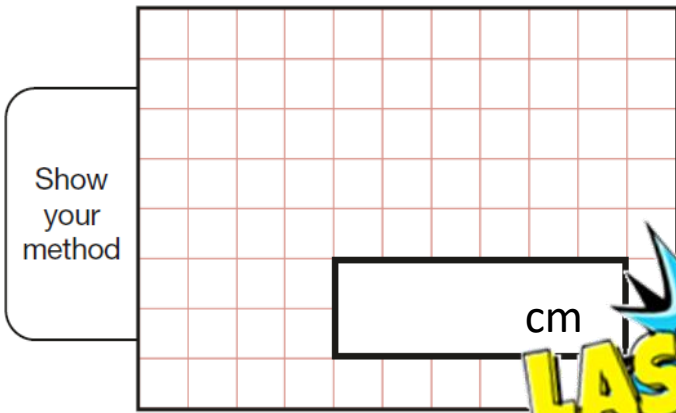
21

On a map, 1cm represents 20 km.



The distance between two cities is 250 km.

On the map, what is the distance between the two cities?



14

Amina planted some seeds.

For every 3 seeds Amina planted, only 2 seeds grew.

Altogether, 12 seeds grew.

How many seeds did Amina plant?




11 Here is a rule for the time it takes to cook a chicken.

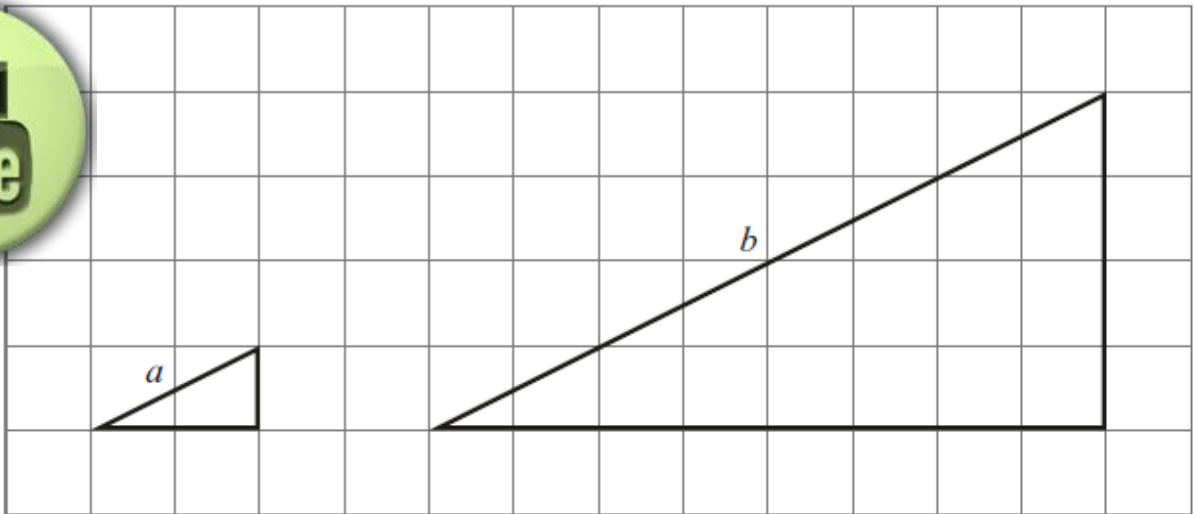
Cooking time = 20 minutes plus an extra 40 minutes for each kilogram

How many minutes will it take to cook a 3 kg chicken?

What is the mass of a chicken that takes 100 minutes to cook?



Here are two similar right-angled triangles.



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

$$a:b = \boxed{\phantom{000}} : \boxed{\phantom{000}}$$

Here are the ingredients for chocolate ice cream.



Show your method

g

cream 400 ml

milk 500 ml

egg yolks 4

chocolate 120 g

sugar 100g



Stefan has only 300ml of cream to make chocolate ice cream.

How much **chocolate** should he use?

# Y6 SATs

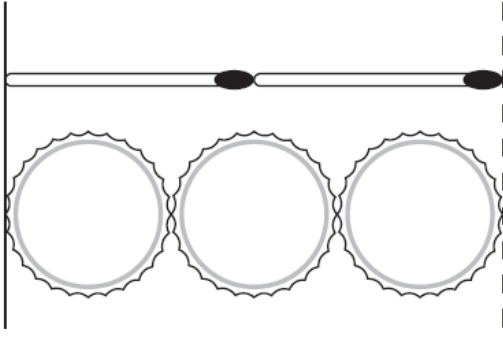
# Proportion & Ratio

Help Code : 015

2007A KS2 Q21



Two matchsticks have the same length as three bottle tops.



How many bottle tops will have the same length as 50 matchsticks?

Show your working. You may get a mark.

2000A KS2 Q15

Peanuts cost 60p for 100 grams.



What is the cost of 350 grams of peanuts?

Show your working. You may get a mark.

Raisins cost 80p for 100 grams.

Jack pays £2 for a bag of raisins.

How many grams of raisins does he get?

Show your working. You may get a mark.

9

# BOOSTER

2004A KS2 Q18

Mari is the presenter of a weekly radio show.



She always plays **five** new songs for every **two** old songs.

Last week she played 15 **new** songs.

How many songs did she play **altogether**?

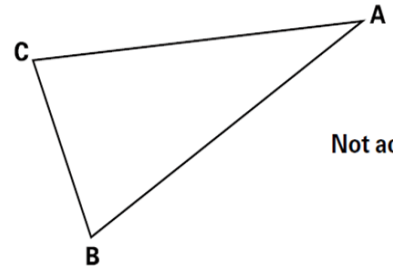
Show your working. You may get a mark.



2001A KS2 Q21

Triangle **ABC** is isosceles and has a perimeter of 20 centimetres.

Sides **AB** and **AC** are each **twice** as long as **BC**.



Not actual size

Calculate the length of the side **BC**. Do not use a ruler.

Show your working. You may get a mark.

cm

