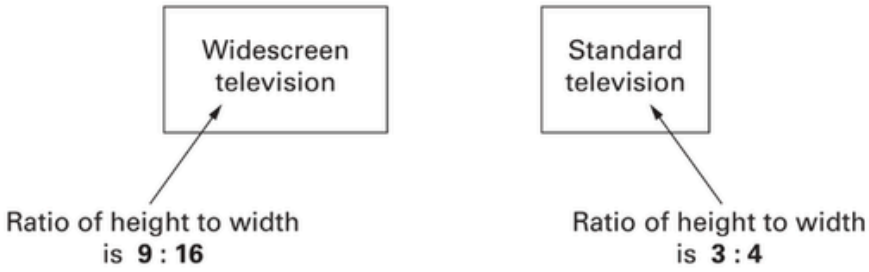
Ratio and Proportion

From scale drawings to sharing amounts fairly, ratio and proportion questions show up again and again in KS3, GCSEs and real life!

The screens of widescreen and standard televisions look different.

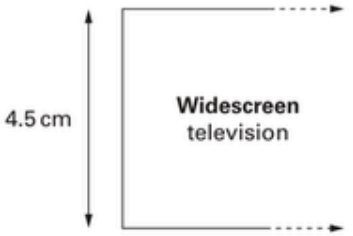
They have different proportions.



Keri starts to draw scale drawings of the televisions.

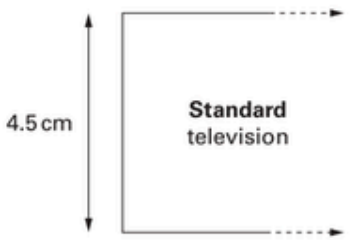
For each, the height is 4.5 cm.

What should the **width** of each scale drawing be?



The width of this scale drawing should be ..... cm

1 mark

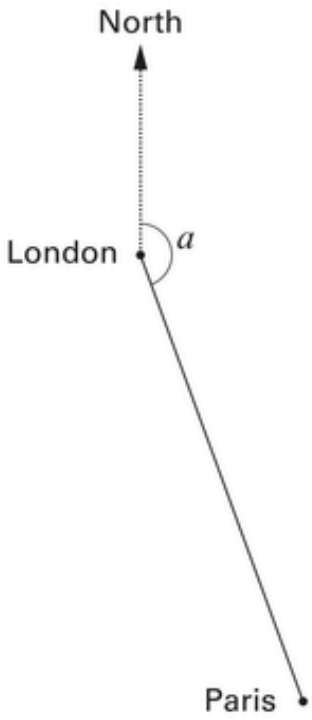


The width of this scale drawing should be ..... cm

1 mark

KS3 Maths SATs, Tier 4-6, Paper 2 (2005) - Q21

The scale drawing shows the positions of London and Paris.



(a) From London to Paris, the angle from north is angle a

Measure accurately angle a

$a =$ ..... °

1 mark

(b) On the scale drawing, **1 cm represents 50 km.**

What is the distance, in km, from London to Paris?

..... km

1 mark

Modern Tuition

Work out the number of boys and girls in each class below.

(a) In class 8M, there are **27 pupils**.

There are **twice as many boys** as girls.

Number of boys	Number of girls
.....	.....

1 mark

(b) In class 8K, there are **28 pupils**.

There are **two more boys** than girls.

Number of boys	Number of girls
.....	.....

1 mark

(c) In class 8T, there are **9 boys**.

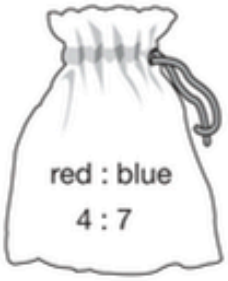
The ratio of boys to girls is **1 : 2**

Number of boys	Number of girls
.....	.....

1 mark

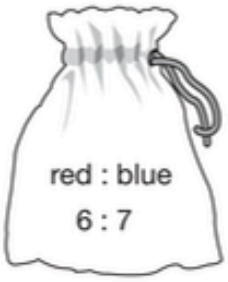
Modern Tuition

In a bag, there are **red** and **blue** cubes in the ratio **4 : 7**



I add **10 more red cubes** to the bag.

Now there are **red** and **blue** cubes in the ratio **6 : 7**



How many **blue** cubes are in the bag?

2 marks

Modern Tuition

A dessert has both fruit and yoghurt inside.



Altogether, the mass of the fruit and yoghurt is **175g**.

The **ratio** of the mass of **fruit** to the mass of **yoghurt** is **2 : 5**

What is the mass of the yoghurt?

_____ g

2 marks

Modern Tuition