

Tuesday 5th May y6

Firstly, continue with SKILLS from yesterday:

When you look at ratio find out what the relationship is between the two numbers e.g

5 is to 10 as 3 is to ?

10 is 2x 5 the relationship here is that 10 is double 5 therefore double 3 is six

The relationship may be trickier e.g one number may be a fraction of another.....Look at this question:

30 to 40 is as 12 to ?

Here you would try to spot the relationship and this time 30 is $\frac{3}{4}$ of 40 because $\frac{1}{4}$ of 40 is 10 and

10 x 3 = 30 therefore 12 has to be $\frac{3}{4}$ of ?

So a bar model might help here:

Whole number (?)			
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
.....twelve.....			?
four	four	four	?

Now you can work out that the mystery quarter must be the same as all the other quarters so it must also be four so then the whole number must be 16 because one quarter of 16 is 4

Three quarters of 16 is 12

Therefore 30 is to 40 as 12 is to 16

Now continue skills below:

9 is to 12 as 3 is to

8 is to 24 as 6 is to

15 is to 20 as 12 is to

16 is to 24 as 20 is to

Find 10% of the following values:

100 grams

£1

150 metres

250cm

4Km

£5

£6.50

1.2Kg

230mm

Find 20% of the following values:

200 grams

£1.50

180 metres

280cm

6Km

£5.50

£7.50

1.8Kg

290mm

Now play **ratio blaster maths playground**

These are not high numbers to find equivalent ratios but you have to think and act quickly so it tests your speed at conversions

Scroll down for answers.....

Answers:

3 is to 12 6 is to 18

15 to 20 (15 is three quarters of 20) so 12 is to 16

16 to 24 (16 is two thirds of 24 because one third of 24 is 8)
therefore 20 is to 30 (because one third of 30 is 10)

Finding 10% remember to convert to $\frac{1}{10}$ so divide by
denominator

10g 10p 15m 25cm

0.4km 50p 65p 120g 23mm

To find 20 % convert to $\frac{1}{5}$

40g 30p 36m 56cm

1200m £1.10 £1.50 360g 58mm