

Mr Johnson's Maths Homework

Set: Friday 5th October

Due: Wednesday 10th October

We have been looking at calculating percentages of amounts by first finding 10% of an amount (divide by 10) and then using basic facts to find more complex ones.

1. Match the question cards to the answers.

Write the full number sentence in your book.

50% of 240

25% of 400

20% of 300

40% of 500

50% of 300

10% of 700

100

70

60

120

200

150

2. Fill in the boxes using < > or =

50% of 48

25% of 100

10% of 300

20% of 150

40% of 50

80% of 20

3.

12% of £420

83% of £17

46% of £660

7% of 56kg

94% of 380kg

41% x 1.2km

69% of 888km

110% x £35 =

EXAMPLE

Find 34% of £480

Could be worked out using the following chart:

10% (divide the whole by 10) = £48

5% (half 10%) = £24

1% (Divide the whole by 100) = £4.80

50% (Half the whole amount) = £240

25% (Half of half the amount) = £120

75% (Add 50% and 25%) = £360

All other amounts can be worked out with combinations of the above percentage.

e.g. **20%** = 10% + 10% / **£48 + £48 = £96**

78% = 75%+1%+1%-1%

98% = 100% - 1% - 1%

So

34% = 10% + 10% + 10% + 1% + 1% + 1% + 1%

Extra optional challenge...

25% of **P** = **Q**

$\frac{1}{5}$ of **Q** = **R**

10% of **R** = 7

Calculate **P** + **R**

Hint: Think backwards / inverse ...