

How to ...

Mr Mason asks 240 year 11 students what they want to do next year.

15% of the students want to go to college.

$\frac{3}{4}$ of the students want to stay at school.

The rest of the students do not know.

Work out the number of students who do not know.

You can work out 15% and $\frac{3}{4}$ separately

$$\begin{array}{l} \underline{15\% \text{ of } 240} \quad 10\% = 24 \quad 5\% = 12 \\ \quad \quad \quad 15\% = 36 \end{array}$$

$$\underline{\frac{3}{4} \text{ of } 240} = 120 + 60 = 180$$

$$180 + 36 = 216 \quad \begin{array}{l} \text{The students who don't know} \\ \text{are } 240 - 216 = \underline{\underline{24}} \end{array} \quad (4)$$

OR you can add 15% and 75% (which is $\frac{3}{4}$)

$$15\% + 75\% = 90\%$$

so 10% don't know. $10\% \text{ of } 240 = \underline{\underline{24}}$

Now have a go yourself ...

SORTED IT – work out

- | | | |
|--------------------------|--------------------------|-------------------------------|
| a) $\frac{3}{5}$ of 35kg | b) $\frac{4}{9}$ of 15 m | c) $\frac{5}{8}$ of 12 litres |
| c) 10% of £70 | d) 25% of 80 kg | e) 40% of £40 |
| f) 25% of £70 | g) 35% of 90 cm | h) 27% of £120 |

NAILED IT

- a) Mel delivers 56 newspapers. On Friday $\frac{3}{8}$ of the newspapers have a magazine supplement. How many supplements does she deliver?
- b) Chris pays 25% of his wages in tax. His total wages are £130.60 How much tax does he pay?

MASTERED IT

Now lets see if you can combine working with both fractions and percentages in the same question:

A school has 1200 pupils. 575 of the pupils are girls.

40% of the girls like sport.

$\frac{3}{5}$ of the boys like sport.

Work out the total number of pupils in the school who like sport.

Exam Questions

Rani has 250 DVDs.

42% of her DVDs are thrillers.

$\frac{2}{5}$ of her DVDs are comedies.

The rest of her DVDs are science fiction.

How many science fictions DVDs does Rani have?

(4)

Ready to be marked ?

Checklist

☐

Answer checked

☐

Working out shown



Keywords



Things to remember ...



What went well ...

Teacher comment ..