

Ratio

How to ...

Colin, Dave and Emma share some money

Be careful about the Colin gets $\frac{3}{10}$ of the money. 'order' of the names!

 $\underbrace{\mathsf{Emma}}_{\mathsf{E}}$ and $\underbrace{\mathsf{Dave}}_{\mathsf{E}}$ share the rest of the money in the ratio 3:2

What is Dave's share of the money?

There are a couple of ways to tackle this question

Method 1:

= 法 or 70%

70% is shared between Emmat Dave in the ratio 3:2

3+2=5

70% ÷ 5 = 14%

3:2×14%

42%: 28%

Davegets 28%

a sum of money ... it 50 Dave + Emna makes sense to choose a nice number ... say £100 Colin: 3 of £100 = £30 Emma OD ave share £70 3+2=5 £70÷5=£14 the question askfu what shad

Another way is to use

Now have a go yourself

SORTED IT- share the following in the ratio shown

a) £40 in the ratio 3:2

b) £35 in the ratio 4:1

c) £54 in the ratio 5:1

d) £35 in the ratio 4:3

e) £42 in the ratio 2:5

f) £65 in the ratio 2:3

NAILED IT - share the following in the ratio shown

a) £30 in the ratio 2:2:1 **b)** £84 in the ratio 3:3:1

c) £990 in the ratio 7:2:2 **d)** £64 in the ratio 5:2:1

e) £240 in the ratio 5:3:2 **f)** £140 in the ratio 6:3:1

MASTERED IT

Mr A, Mr B and Mr C own 2, 3, and 6 parts of a business. They share the profit according to how many parts of the business they own. If Mr C gets £132 how much profit did the business make?

To make suet you need fat to flour in the ratio 1: 3. Jane has 180 g of flour. How much fat does she need to make the suet?

The sides of a triangle are in the ratio 2:4:5. The middle sized side is 28 cm.

a). Find the length of the other two sides.

b). Find the perimeter of the triangle.

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Exam Questions

Q1. 5 schools sent some students to a conference. One of the schools sent boys and girls. This school sent 16 boys. The ratio of the number of boys it sent to the number of girls it sent was 1:2

The other 4 schools sent only girls.

Each of the 5 schools sent the same number of students.

Work out the total number of students sent to the conference by these 5 schools.

Q2. Last year Kerry's take home pay was £15 000 She spent 40% of her take home pay on rent.

She used the rest of her take home pay for living expenses, clothes and entertainment in the ratio 3:1:2

How much did Kerry spend on entertainment last year?

Q3. Talil is going to make some concrete mix. He needs to mix cement, sand and gravel in the ratio 1:3:5 by weight. Talil wants to make 180 kg of concrete mix. He has:

15 kg of cement 85 kg of sand 100 kg of gravel

Does Talil have enough cement, sand and gravel to make the concrete mix?

Ready to be marked?

Checklist				
		Answer checked		
		Working out shown		
	Keywords			
korget tog	Things to remember			
	9	3 to remember		
	What	went well		
Teacher comment				