

it is important to 'break' this question down into manageable chunks ... highlight the important information

Ratio

How to ...

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.

school 1 Boys : Girls
 16 : ? ← we need to work this out
 1 : 2

so if 1 "part" is 16, 2 "parts" = $2 \times 16 = 32$

Boys : Girls
 16 : 32

The total from this school = $16 + 32 = 48$

Schools 2, 3, 4 and 5 all sent same number as school 1

48 48 48 48

Total = $48 + 48 + 48 + 48 + 48$ (or 5×48)
 = 240 (4)

Now have a go yourself ...

MUST - 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

SHOULD - 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

COULD

- a) 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?
- b) 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?
- c) 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.

Exam Questions

Q1. 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?

Q2. 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



Things to remember ...



What went well ...

Teacher comment ..