GCSE HIGHER · REVISION MAT 5

Ratio problems

1 Share 45 in the ratio 4 : 5.

2 Cats : dogs = 2 : 5.

There are 18 more dogs than cats.

How many cats are there?

3 Write 3 : 8 in the form 1 : n.

4 Orange drink is juice : lemonade = 2 : 7.

How much juice is in 1.8 litres?

5 Show that 0.4 : 1.2 : 2 = 1 : 3 : 5.

6 Sam : Tim ages are 3 : 5 now.

In 6 years they will be 2 : 3.

Find their ages now.

7 $a : b = 2 : 3$ and $b : c = 3 : 4$

Show that $a : c = 1 : 2$.

8 Red : green counters = 5 : 3.

10 red counters are removed and the ratio becomes 5 : 4.

How many green counters are there?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 5

Ratio problems

1 9 parts = 45

20 and 25

2 3 parts = 18

12 cats

3 Divide by 3

1 : 2.67 (1 : $\frac{8}{3}$)

4 9 parts = 1.8 L

0.4 litres

5 Multiply by 2.5

1 : 3 : 5

6 $3(3x + 6) = 2(5x + 6)$

$x = 6$

Sam 18, Tim 30

7 $a : b : c = 2 : 3 : 4$

$a : c = 2 : 4 = 1 : 2$

8 $4(5x - 10) = 5 \times 3x$

$x = 8$

24 green

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