GCSE HIGHER · REVISION MAT 2

Ratio, fractions and linear functions

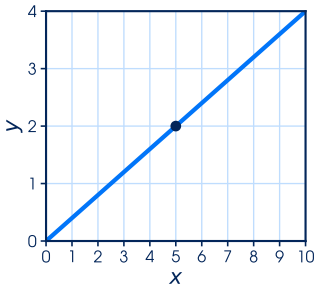
1 Juice : water = 1 : 4.

What fraction of the drink is juice?

2 $a : b = 3 : 7$

Write a as a fraction of b.

3 Write down $y : x$ for the points on this line.



4 Euros E and pounds P are linked by $E = 1.15P$.

Find P when $E = 92$.

5 $y = \frac{2}{3}x$

Show that $x : y = 3 : 2$.

6 Sand : cement = 5 : 2.

Write S in terms of C.

Find C when S = 35 kg.

7 Explain why a straight line that does not pass through (0, 0) cannot show two quantities in a fixed ratio.

8 A line through (0, 0) passes through (6, 9) and (a, 15).

Find a.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

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1 $\frac{1}{5}$

2 $a = \frac{3}{7}b$

3 Through (5, 2)

2 : 5

4 P = 92 ÷ 1.15

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5 $3y = 2x$

$x : y = 3 : 2$

6 S = 2.5C

C = 14 kg

7 **When one quantity is 0 the other is not, so $\frac{y}{x}$ changes.**

8 Ratio $x : y = 2 : 3$

$a = 10$

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