Summer Term Maths Year 10

Linking ratios and fractions

Day 1

Week 5

1 The ratio of a to b is 3 : 4.

Rosie says that ' a is $\frac{3}{4}$ of b'

Jack says that 'a is $\frac{3}{7}$ of b'

(a) Explain why Rosie is correct.

As 3 is 3 quarters of 4

(b) What has Jack worked out?

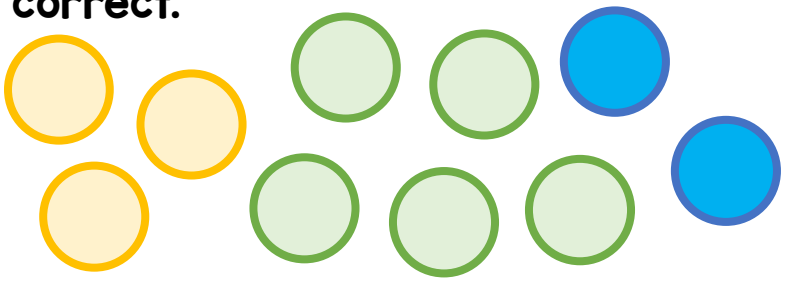
Jack has worked out a as a fraction of the whole

2 The ratio of c to d is 2 : 3.

(a) What fraction of d is c? $\frac{2}{3}$

(b) What fraction of c is d? $\frac{3}{2}$

3 Circle the statements that are correct.



(a) $\frac{3}{10}$ of the counters are yellow

(b) The ratio of yellow to green is 5 : 3

(c) The number of yellow counters is $\frac{3}{8}$ the number of green counters.

(d) The number of blue counters is $\frac{2}{5}$ the number of green counters.

White Rose Maths

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4 Use the bar model to complete the statements.

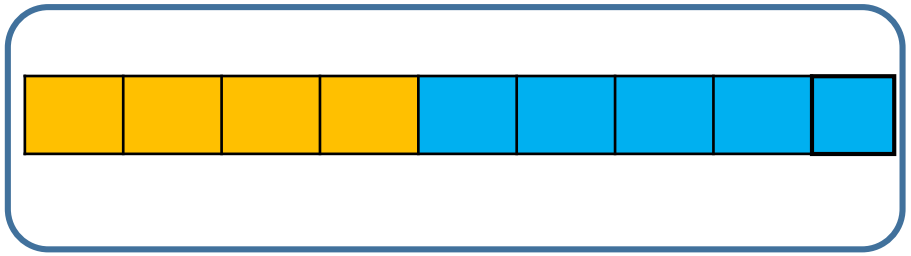
(a) The ratio of orange to blue is 3:5

(b) The fraction of blue parts is $\frac{5}{8}$

(c) Blue is $\frac{5}{3}$ of orange.

(d) Orange is $\frac{3}{5}$ of blue.

5 Draw a bar model to represent the statement "orange is $\frac{4}{5}$ of blue".



6 (a) If a is $\frac{2}{7}$ of b what fraction of a is b? $\frac{7}{2}$

(b) If c is $\frac{4}{3}$ of d what fraction of c is d? $\frac{3}{4}$

7 X is $\frac{3}{5}$ of Y and Z is $\frac{2}{3}$ of X.

(a) Draw a diagram to represent the parts of X to Y to Z.

x	x	x	y	y	y	y	y	z	z

(b) What fraction of Z is Y? $\frac{5}{2}$

White Rose Maths