Lesson 12 – Writing one Number as a Fraction of Another

Starter

1) Simplify $\frac{45}{63}$
2) Change 34% to a fraction in its simplest form
3) Change $5\frac{2}{3}$ to an improper fraction
4) Change 0.02 to a fraction it its simplest form

Starter Answers

1) $\frac{5}{7}$ 2) $\frac{17}{50}$ 3) $\frac{17}{3}$ 4) $\frac{1}{50}$

Example 1

Chris got a score of 16 out of 20 in his test.
Write this as a fraction in its simplest form.

$$\frac{16}{20} = \frac{8}{10} = \frac{4}{5}$$

16 is $\frac{4}{5}$ of 20

Example 2

Write 32 as a fraction of 80. Simplify your answer.

$$\frac{32}{80} = \frac{16}{40} = \frac{8}{20} = \frac{2}{5}$$

32 is $\frac{2}{5}$ of 80

Example 3

Write 84p as a fraction of £1. Simplify your answer.

£1 is 100p

$$\frac{84}{100} = \frac{42}{50} = \frac{21}{25}$$

80p is $\frac{21}{25}$ of £1

Your go

Write the first value as a simplified fraction of the second:
a) 28 out of 30 b) 8p out of £1 c) 4 days out of a week

Answers

a) $\frac{14}{15}$ b) $\frac{2}{25}$ c) $\frac{4}{7}$

Example 3

I mix some purple paint using 100ml of red paint and 250ml of blue paint.
What fraction of the purple paint is red?

Work out how much paint we have in total: 100 + 250 = 350
Red paint is 100ml out of 350ml
As a fraction this is $\frac{100}{350}$
This simplifies to $\frac{2}{7}$

Example 4

What fraction of 40 is 48?

48 is bigger than 40 so the fraction will be bigger than 1 whole
48 out of 40 is $\frac{48}{40}$
This simplifies to $\frac{6}{5}$

48 is $\frac{6}{5}$ of 40