

Learning Objective:	To be able to express one number as a fraction of another	Name:	
		Date:	

Do NOW Activity:

- 1 List the square numbers between 50 and 200
- 2 Work out the difference between 25.6 and 19.07
- 3 Work out $7 - -7$
- 4 Work out $272 \div 8$
- 5 Work out 1.5×6

PRIOR KNOWLEDGE CHECK:

1. I am able to simplify fractions

THE MAIN EVENT

WORKED EXAMPLE #1:

Write £5 as a fraction of £20

$$\frac{\text{£}5}{\text{£}20} = \frac{5}{20} \begin{matrix} \boxed{\div 5} \\ \boxed{\div 5} \end{matrix} = \frac{1}{4}$$

PRACTICE #1:

Question 1: Give each answer as a simplified fraction

- | | |
|---|--|
| (a) Write 5 days as a fraction of 20 days | (b) Write £6 as a fraction of £8 |
| (c) Write 10p as a fraction of 30p | (d) Write 6kg as a fraction of 12kg |
| (e) Write 9cm as a fraction of 15cm | (f) Write 25 days as a fraction of 35 days |
| (g) Write 8p as a fraction of 40p | (h) Write 52p as a fraction of 90p |
| (i) Write 30ml as a fraction of 110ml | (j) Write 360kg as a fraction of 480kg |

WORKED EXAMPLE #2:

In a class of 30 pupils, 12 are girls. What fraction of the class are girls?

$$\frac{12}{30} \begin{matrix} \boxed{\div 2} \\ \boxed{\div 2} \end{matrix} = \frac{6}{15} \begin{matrix} \boxed{\div 3} \\ \boxed{\div 3} \end{matrix} = \frac{2}{5}$$

PRACTICE #2:

Question 2: Give each answer as a simplified fraction

- (a) Write 2 days as a fraction of 1 week (b) Write 40p as a fraction of £3
(c) Write 5 minutes as a fraction of 2 hours (d) Write 2 months as a fraction of 1 year
(e) Write 500g as a fraction of 40kg (f) Write 750ml as a fraction of 3 litres
(g) Write 8g as a fraction of 4kg (h) Write 920mm as a fraction of 12m
(i) Write £1.85 as a fraction of £1.20 (j) Write 50 seconds as a fraction of 1 hour

PRACTICE #3:

Question 1: Over one day, Rebecca spends 6 hours sleeping.
What fraction of the day is Rebecca awake?
Give your answer in its simplest form.

Question 2: John has 12 pieces of card, each with a letter written on it.



- (a) What fraction of the letters are the letter T?
(b) What fraction of the letters are the letter A?
(c) What fraction of the letters are vowels?
(d) What fraction of the letters are **not** the letter T?

Question 3: Jemima receives £5 pocket money.
She spends £1.75 on a magazine and 80p on a drink.

- (a) What fraction of the pocket money has she spent?
(b) What fraction of the pocket money does Jemima have left?

Question 4: In a town in Cornwall, it rained for 18 days during April.
What fraction of the month did it rain?

PRACTICE #4:

1. The table below shows the colours of cars in the car park.

<u>Car colour</u>	<u>Frequency</u>
Black	25
White	10
Grey	10
Red	5

What fraction of the cars were

- Black b) white c) red d) Not grey