Corbett maths

Workout

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

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

(j)   Write 50 seconds as a fraction of 1 hour

Apply

Question 1:   There are 30 students in a class.
               20 students have brown hair.
               What fraction of the class have brown hair?
               Give your answer in its simplest form.

Question 2:   A bag contains red and white sweets.
               There are 12 red sweets and 8 white sweets.
               What fraction of the sweets are white?
               Give your answer in its simplest form.

Question 3:   Over one day, Rebecca spends 6 hours sleeping.
               What fraction of the day is Rebecca awake?
               Give your answer in its simplest form.

Question 4:   John has 12 pieces of card, each with a letter written on it.

C O R B E T T M A T H S

(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 5:   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 6:   In a town in Cornwall, it rained for 18 days during April.
What fraction of the month did it rain?

Question 7:   Barry is saving money towards a new motorbike that costs £4,000.
Each month, he saves £5 more than the previous month.
In January he saves £60.
Over the first year of saving money, what fraction of the cost has he saved?

Question 8:   In Victoria's class, there are 30 students.
Explain why Victoria must be wrong.

Exactly $\frac{2}{7}$ of the students in the class wear glasses.

Question 9:   Nigel has completed his homework.
Can you spot any mistakes?

In a bag there are 80 beads.
There are 35 yellow beads.
There are 17 red beads.
The rest of the beads are white.

$35 + 17 = 52$
$80 - 52 = 38$

Work out what fraction of the beads are white.
Give your answer in its simplest form.

$$\frac{38}{80} = \frac{19}{40}$$