

## Proportion of amounts

1) Calculate

- a)  $\frac{1}{5}$  of 30      b)  $\frac{1}{7}$  of 56      c)  $\frac{1}{9}$  of 36  
d)  $\frac{2}{5}$  of 30      e)  $\frac{3}{7}$  of 56      f)  $\frac{8}{9}$  of 36

2) Calculate

- a)  $\frac{5}{6}$  of 42      b)  $\frac{2}{3}$  of 36      c)  $\frac{2}{9}$  of 27  
d)  $\frac{5}{4}$  of 28      e)  $\frac{7}{3}$  of 15      f)  $2\frac{4}{5}$  of 10  
g)  $5\frac{1}{3}$  of 18      h)  $4\frac{3}{7}$  of 21

3) Calculate

- a) 25% of 60      b) 65% of 80      c) 11% of 18  
d) 36% of 300      e) 12.5% of 12      f) 130% of 9

4) Calculate

- a)  $\frac{5}{7}$  of 2.1      b) 12% of 0.6      c)  $\frac{8}{9}$  of  $3\frac{3}{5}$   
d)  $1\frac{1}{5}$  of 2.4      e) 240% of  $1\frac{2}{3}$       f) 65% of  $1\frac{3}{7}$

5) I go on a long and pleasant dog walk over a distance of  $12\frac{1}{2}$  km.

$\frac{3}{5}$  of this walk was through the woods. How far did I walk through the woods?

6) A “Butterball” chocolate treat has a mass of  $14\frac{2}{3}$ g.

$\frac{1}{4}$  of its mass is made from saturated fat.

$\frac{5}{11}$  of its mass is made from sugar.

The rest of its mass consists of unsaturated fats.

What mass of unsaturated fats are used in each Butterball treat?

7) I have  $\frac{1}{2}$  litre of “Fizzy Lifting Drink”.

Charlie drinks  $\frac{1}{2}$  of it.

Grampa drinks  $\frac{1}{3}$  of what is left.

Willy drinks  $\frac{1}{4}$  of what is left.

Arthur needs at least  $\frac{1}{10}$  litre left to experiment on. Does he have enough?

8) Berlinda notices that she is  $\frac{3}{5}$  through the second third of her run.

Given that she still has 21km left to run, how long is the whole race?

### Answers

1a) 6 b) 8 c) 4 d) 12 e) 24 f) 32 2a) 35 b) 24 c) 6 d) 35 e) 35

f) 28 g) 96 h) 93 3a) 15 b) 52 c) 1.98 d) 108 e) 1.5 f) 11.7 4a) 1.5

b) 0.072 c)  $\frac{16}{5}$  or  $3\frac{1}{5}$  d) 2.88 e) 4 f)  $\frac{13}{14}$

5)  $7\frac{1}{2}$  km 6)  $4\frac{1}{3}$  g 7) yes, there is  $\frac{1}{8}$  litre remaining 8) 45km