

Number - Simple Ratio

Q1

A piece of wood is 180 cm long.

Tom cuts it into three pieces in the ratio 2 : 3 : 4

Work out the length of the longest piece.

..... cm

(Total 3 marks)

Number - Simple Ratio

Q2

There are some sweets in a bag.

18 of the sweets are toffees.

12 of the sweets are mints.

- (a) Write down the ratio of the number of toffees to the number of mints.
Give your ratio in its simplest form.

..... :
(2)

There are some oranges and apples in a box.

The total number of oranges and apples is 54

The ratio of the number of oranges to the number of apples is 1 : 5

- (b) Work out the number of apples in the box.

.....
(2)

Number - Simple Ratio

Q1

A piece of wood is 180 cm long.

Tom cuts it into three pieces in the ratio 2 : 3 : 4

Work out the length of the longest piece.

$$\text{Total shares} = 2 + 3 + 4 = 9$$

$$9 \text{ shares} = 180 \text{ cm}$$

$$1 \text{ share} = \frac{180}{9} = 20 \text{ cm}$$

$$\begin{aligned} \text{Longest piece} &= 4 \text{ shares} = 20 \text{ cm} \times 4 \\ &= 80 \text{ cm} \end{aligned}$$

.....80..... cm

(Total 3 marks)

Number - Simple Ratio

Q2

There are some sweets in a bag.

18 of the sweets are toffees.

12 of the sweets are mints.

- (a) Write down the ratio of the number of toffees to the number of mints.
Give your ratio in its simplest form.

$$18 : 12 \quad \text{cancel by 6}$$

$$3 : 2$$

$$\begin{array}{c} 3 \\ \text{.....} \end{array} : \begin{array}{c} 2 \\ \text{.....} \end{array}$$

(2)

There are some oranges and apples in a box.

The total number of oranges and apples is 54

The ratio of the number of oranges to the number of apples is 1 : 5

- (b) Work out the number of apples in the box.

$$\text{Total shares} = 1 + 5 = 6$$

$$6 \text{ shares} = 54$$

$$1 \text{ share} = \frac{54}{6} = 9$$

$$\text{apples} = 5 \text{ shares} = 9 \times 5 = 45$$

$$\begin{array}{c} 45 \text{ apples} \\ \text{.....} \end{array}$$

(2)