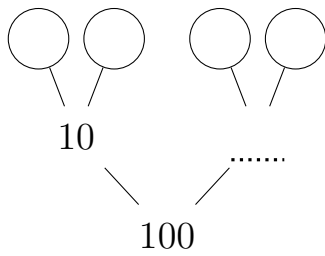


1. Optional warm up question

Complete all the factor pairs of 100

You may use this prime factor tree.



$$\dots \times \dots = 100$$

$$\dots \times \dots = 100$$

$$\dots \times \dots = 100$$

$$\dots \times \dots = 100$$

$$\dots \times \dots = 100$$

2. There are only blue and white tiles on a floor.

The number of blue and the number of white tiles on the floor are in the ratio 1 : 3

Work out the percentage of tiles that are white.

..... %

3. Only sweets, biscuits and cakes sales are sold at a charity stall.

The number of sweets, the number of biscuits and the number of cakes sold at the stall are in the ratio 1 : 6 : 3

Work out the percentage of the sales at the stall that are cakes.

..... %

4. Only adult, child and reduced price tickets are sold at a cinema.

The number of adult, the number of child and the number of reduced price tickets sold are in the ratio 7 : 1 : 2

Work out the percentage of the tickets sold that are adult tickets.

..... %

Answers

1. $100 = 2 \times 5 \times 2 \times 5$

factor pairs of 100 are 1×100 , 2×50 , 4×25 , 5×20 and 10×10 ,

2. 75 %

3. 30 %

4. 70 %