



## Real-life problems

In a class of 30 children, 6 children are painting.  
What percent of children are painting?

$\frac{6}{30}$  of the children are painting  
and to change a fraction to  
a percent we multiply by 100.

20%

$$\frac{6}{30} \times 100 = \frac{600}{30} = 20$$

40% of a class is made up of girls. If there are  
12 girls, how many children are in the class?

If 12 girls are 40% of the class, we  
divide 12 by 40 to find 1%. Then  
we multiply by 100 to find 100%.

30 children

$$\frac{12}{40} \times 100 = 30$$

A shop has 60 books by a new author. If the  
shop sells 45 books, what percent does it sell?



A school disco sells 65% of its tickets. If it had  
120 tickets to start with, how many has it sold?



200 people go on a school trip. If 14% are  
adults, how many children go on the trip?



A shop sells 150 T-shirts but 12 are returned  
because they are faulty. What percent of  
the T-shirts was faulty?



A group of 120 children are asked their  
favourite colour.

15% like red. How many children like red?

20% like green. How many children like green?

30% like yellow. How many children like yellow?

15% like blue. How many children like blue?