

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%

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

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

×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 favorite colors.

15% like red. How many children like red?

20% like green. How many children like green?

30% like yellow. How many children like yellow?

35% like blue. How many children like blue?











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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

$$\frac{\frac{1}{8}}{\frac{8}{30}} \times \frac{20}{100} = 20$$

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

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

75%

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

78 tickets

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

172 children

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

8%

A group of 120 children are asked their favorite colors.

15% like red. How many children like red?

20% like green. How many children like green?

30% like yellow. How many children like yellow?

35% like blue. How many children like blue?









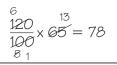
18

24

36

42

 $\frac{\cancel{45}}{\cancel{60}} \times \cancel{100} = 75$



$$100 - 14 = 86 \%$$

$$\frac{200}{100} \times 86 = 172$$

$$\frac{\cancel{12}}{\cancel{150}} \times \cancel{100} = 8$$

$$\frac{\cancel{120}}{\cancel{100}} \times \cancel{15} = 18$$

$$\cancel{120}_{51}$$

$$\cancel{120}_{81}$$

$$\cancel{120}_{8$$

In questions 1 and 4, children should see that the answer can be expressed as a fraction, which can then be converted to a percentage by multiplying by 100.

