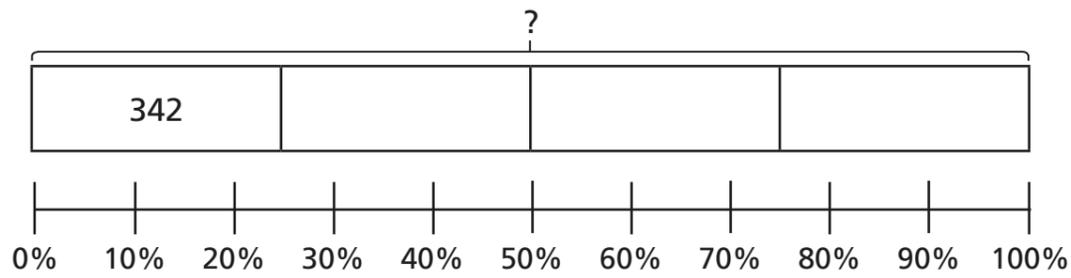# Percentages – missing values
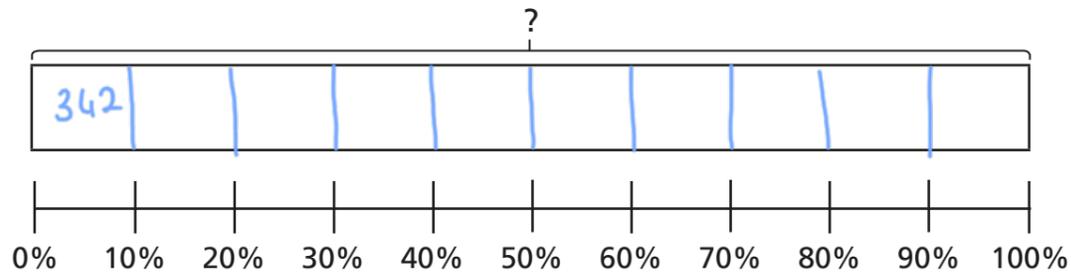
1 Complete the bar models to find the missing numbers.
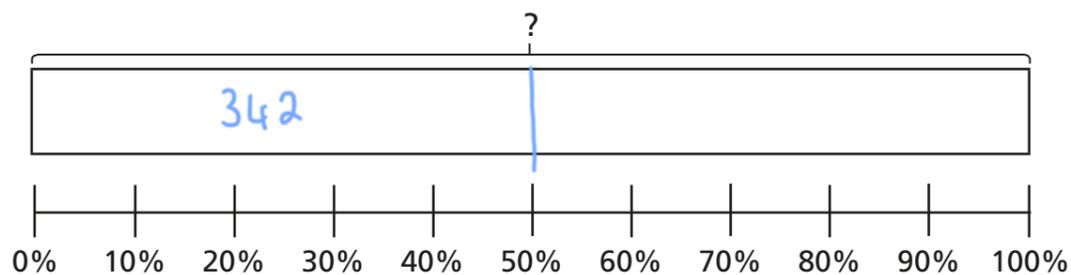
a) 25% of $\boxed{1,368}$ = 342

?			
342			

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

b) 10% of $\boxed{3,420}$ = 342

?

342

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

c) 50% of $\boxed{684}$ = 342

?

342

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

d) 75% of $\boxed{456}$ = 342

342

114	114	114	114

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

?
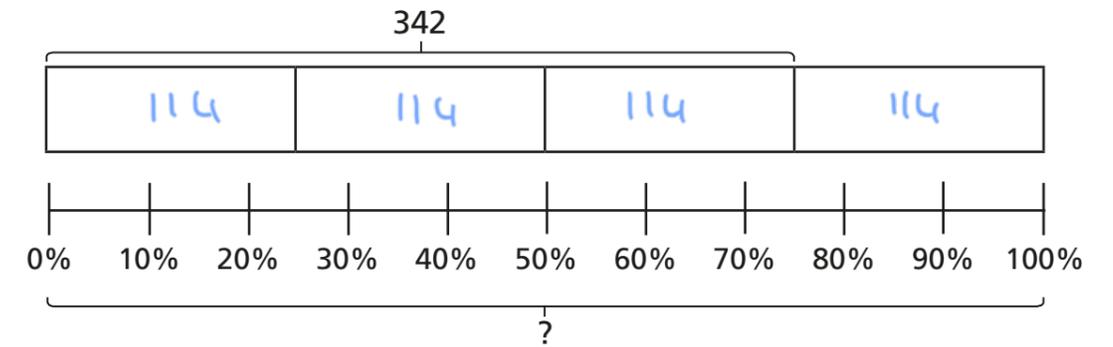
2 40% of the children in a school are boys.
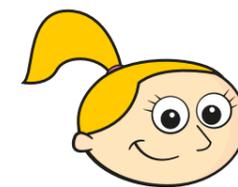
There are 188 boys in total.

a) How many children are there altogether?

$\boxed{470}$

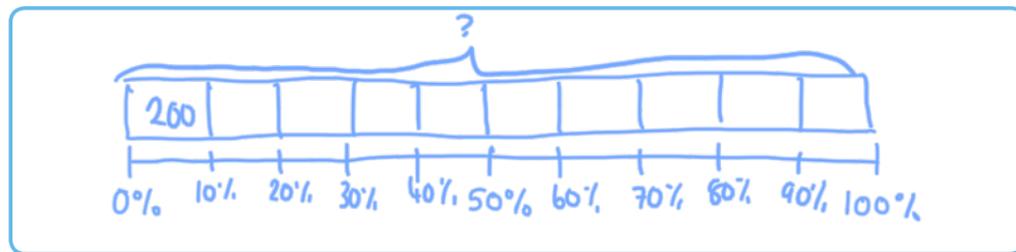**b)** How many girls are there?

$\boxed{282}$

3 10% of $\boxed{}$ = 200

I know that to find 10% I have to divide by 10, so the answer is 20

a) What mistake has Eva made?

b) Draw a bar model to help Eva find the correct answer.

c) What is the correct answer?

2,000

4 Complete the calculations.

a) 20% of | 150 | = 30

20% of | 300 | = 60

b) 10% of | 400 | = 40

10% of | 200 | = 20

c) | 25 | % of 400 = 100

| 75% | % of 300 = 225

d) 80% of | 40 | = 32

| 25 | % of 32 = 8

5 The table shows the number of people who visited a cinema over four days.

a) Fill in the missing information.

Day	Percentage of total visitors	Number of visitors
Thursday	10%	224
Friday	20%	448
Saturday	45%	1,008
Sunday	25%	560
Total	100%	2,240

b) How many more people went to the cinema on Saturday than Sunday?

448

c) 60% of the visitors were children.

How many children went to the cinema?

1,344

6 Find three different solutions to make the statement correct.

10% of ▲ = ⭐ % of 50

E.g.

▲	⭐
500	100
100	20
10	2

What do you notice about your answers?

Talk about it with a partner.

White Rose Maths