Percentage of an amount (1)

1 Match the equivalent fractions to the percentages.

$\frac{1}{2}$ 25%

$\frac{1}{100}$ 1%

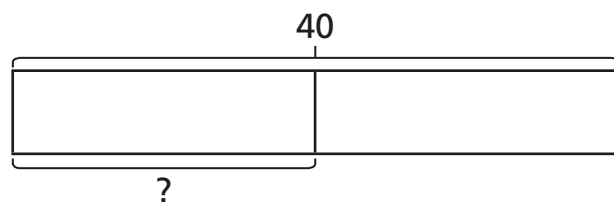$\frac{1}{10}$ 50%
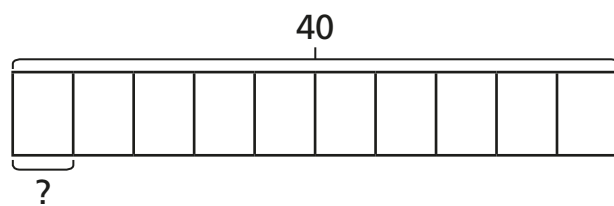
$\frac{1}{4}$ 10%

2 Match each bar model to the statement it represents.

40
?

40
?

40
?
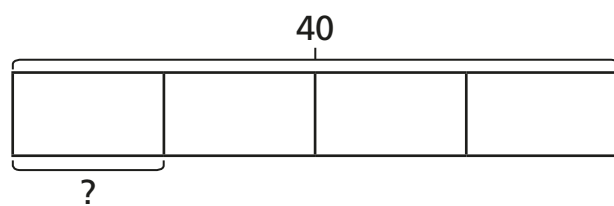
10% of 40

25% of 40

50% of 40

Compare answers with a partner.

3 Use the bar models to help you complete the calculations.

a)

?

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

624

50% of 624 = ☐

?

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

624

25% of 624 = ☐
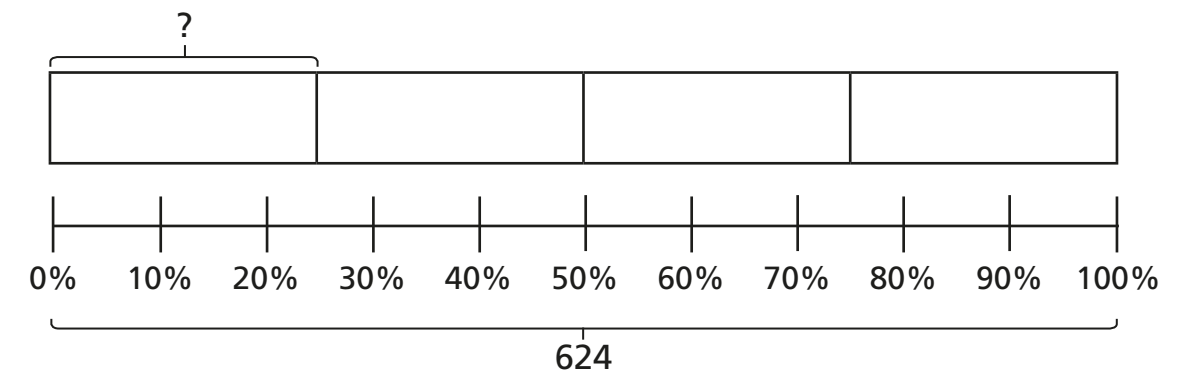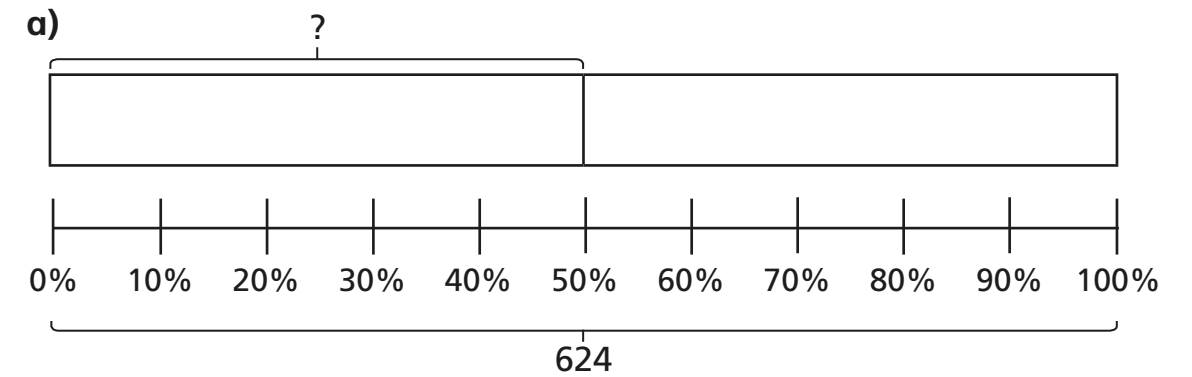
What do you notice about your answers?

b) Use bar models to complete the calculations.

50% of 3,420 = ☐

25% of 3,420 = [ ]

[ ]

10% of 3,420 = [ ]

[ ]

4 Complete the calculations.

a) 50% of 3,000 = [ ]   **c)** 10% of 3,000 = [ ]

    50% of 1,500 = [ ]   10% of 1,500 = [ ]

    50% of 500 = [ ]   10% of 500 = [ ]

b) 25% of 3,000 = [ ]   **d)** 1% of 3,000 = [ ]

    25% of 1,500 = [ ]   1% of 1,500 = [ ]

    25% of 500 = [ ]   1% of 500 = [ ]

What do you notice about your answers?

5 Workers in a toy factory aim to pack 2,560 boxes each day.

At 10:00 am they have completed 25% of their target.

a) How many boxes have they packed?   [ ]

By midday they have packed 50% of their target.

At 2:00 pm they have packed another 10% of their target.

b) How many more boxes do they need to pack to meet the daily target?

They need to pack [ ] more boxes.

6 Follow the steps to find a way through the maze.

START 2,000	Find 25%	× 10	− 600	Find 10%
Find 50%	Find 1%	+ 700	Find 50%	× 5
Find 10%	Add 1,000	Double	Find 1%	− 100
− 500	Find 25%	Double	× 10	Find 1%
Double	+ 800	Find 1%	Find 50%	FINISH 55