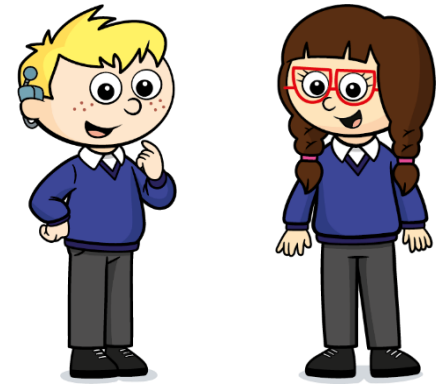


1

Max has 10 cards.

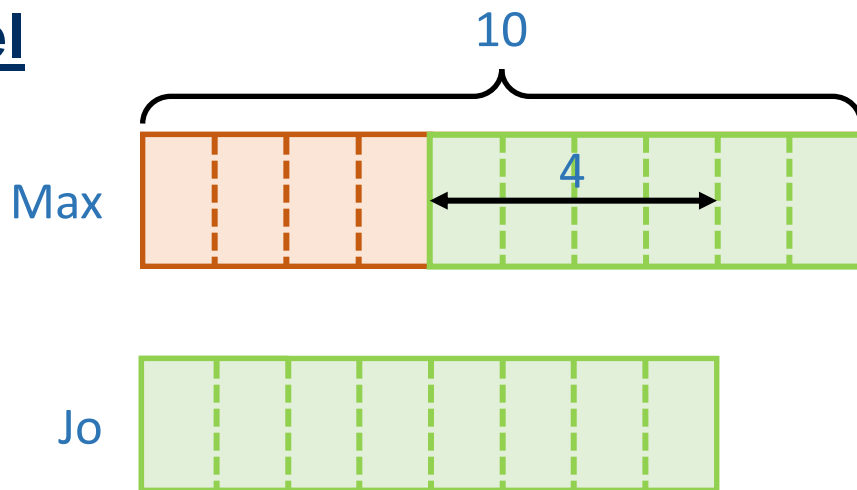
Jo has 2 cards.

Max gives Jo 6 cards.



How many more cards does Jo have than Max now?

### Model



### Calculations

$$2 + 6 = 8$$

$$8 - 4 = 4$$

Jo has 4 more cards than Max.

2

Kim buys 2 mince pies.

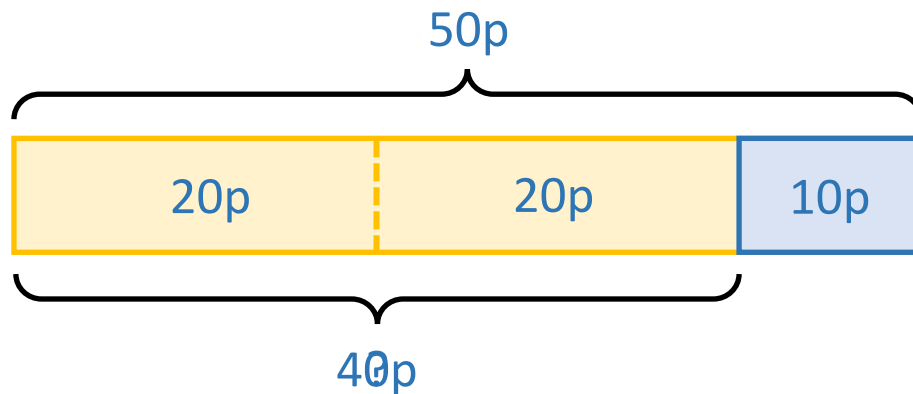
She pays with a 50p coin.

She gets 10p change.



How much does one mince pie cost?

### Model



### Calculations

$$50\text{p} - 10\text{p} = 40\text{p}$$

$$40\text{p} \div 2 = 20\text{p}$$

One mince pie costs 20p pence.

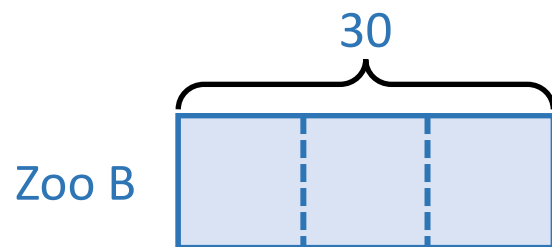
3

Zoo A has 3 times as many penguins as Zoo B.

- Zoo A releases  $\frac{2}{3}$  of their penguins into the wild.
- Zoo A gives  $\frac{1}{2}$  of their remaining penguins to Zoo B.
- Zoo A has 10 penguins left.

How many penguins does Zoo B have now?

### Model



$$10 \times 3 = 30$$

Zoo B now has 30 penguins.

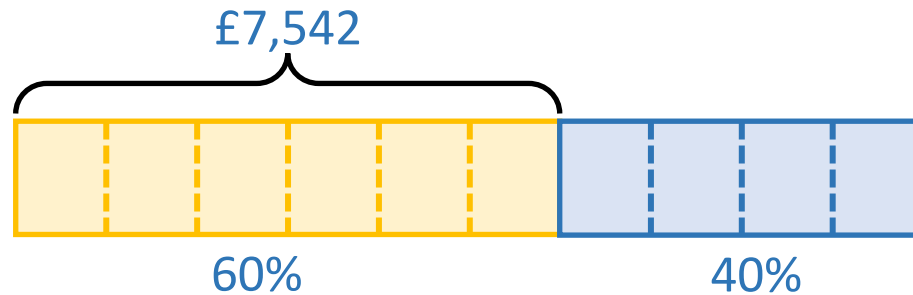
4 The cost of a sleigh is reduced by 40%



The cost of the sleigh is now £7,542

What was the full price of the sleigh?

### Model



### Calculations

$$£7,542 \div 6 = £1,257$$

$$10\% = £1,257$$

$$10 \times £1,257 = £12,570$$

The full price of the sleigh was £12,570

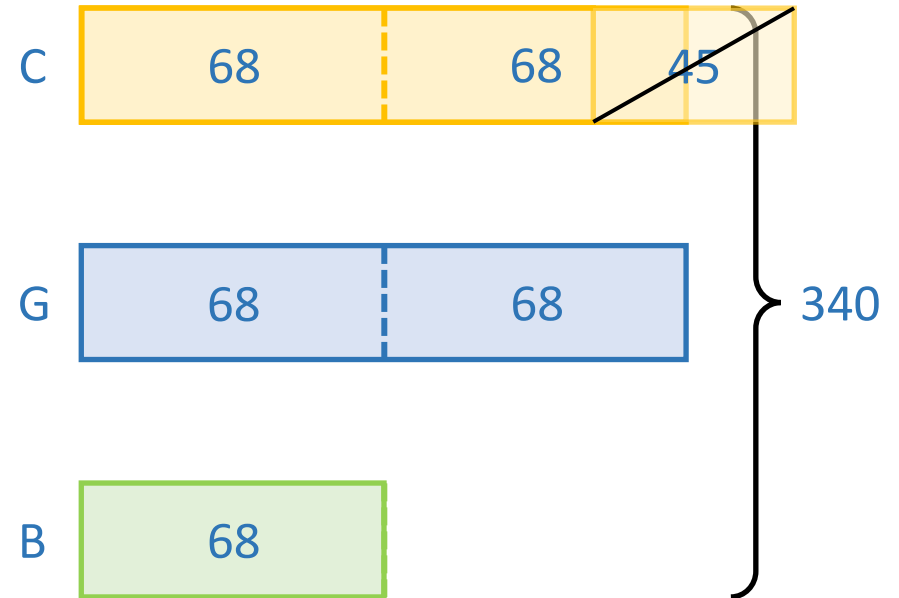
5

A baker bakes the same number of cookies, gingerbread and biscuits.

- By lunchtime, there are twice as many gingerbread as biscuits left.
- The baker sells 45 cookies.
- The number of cookies now is 17 fewer than the number of gingerbread.
- There are 323 items left in total.

How many of each item did the baker bake? **164**

Model



Calculations

$$323 + 17 = 340$$

$$340 \div 5 = 68$$

$$68 - 17 = 51$$

$$68 + 51 + 45 = 164$$