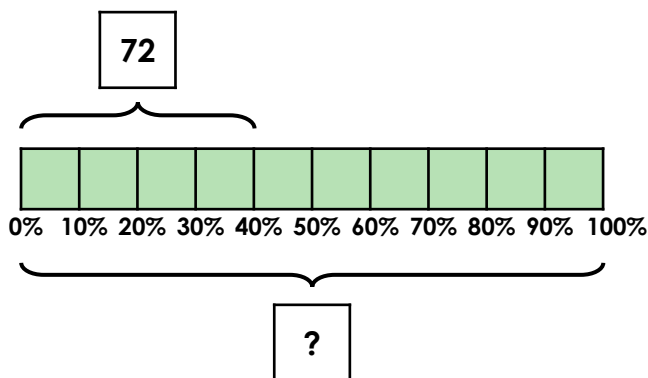


# Percentages – Missing Values

1. Use the bar model to find the whole amount.



VF

4. Irvine is discussing the calculation below.

$$45\% \text{ of } 260 < 25\% \text{ of } \boxed{?}$$

He says,



The missing number has to be 117 because 45% of 260 is 117.

Do you agree with Irvine? Convince me.

R

2. Find the missing values.

A.  $65\% \text{ of } \boxed{\phantom{000}} = 117$

B.  $15\% \text{ of } 240 = \boxed{\phantom{000}}$

C.  $35\% \text{ of } \boxed{\phantom{000}} = 315$

VF

5. A bakery sells 200 different products in their store.

32% of the products are made using wholemeal flour.

75% of the products made with wholemeal flour are also suitable for vegans.

How many products are made with wholemeal flour? How many products made with wholemeal flour are suitable for vegans?

PS

3. A flower shop makes 35% of their yearly sales in February.

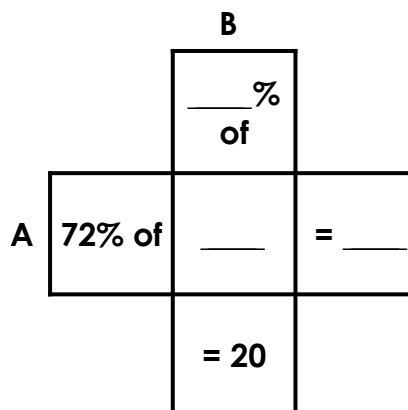
This February, they sold a total of 5,040 flowers.

How many flowers did they sell throughout the whole year?



VF

6. What could the missing values be?



Find 2 possible solutions.

PS

## Percentages – Missing Values

- 180
- A. 180; B. 36; C. 900
- 14,400 stems
- Irvine is incorrect. 117 will not complete the comparison statement correctly. The right-hand side of the statement must give an answer that is more than 117. To give an answer of more than 117, the missing number must be 472 or higher, as  $25\%$  of 472 = 118.
- 64 of the bakery's products are made with wholemeal flour. 48 of the products made with wholemeal flour are suitable for vegans.
- Various answers, for example:  
A.  $72\%$  of 1,000 = 720; B.  $2\%$  of 1,000 = 20  
A.  $72\%$  of 500 = 360; B.  $4\%$  of 500 = 20