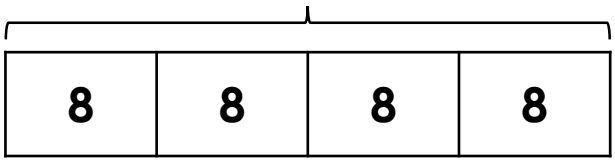
Percentages – Missing Values

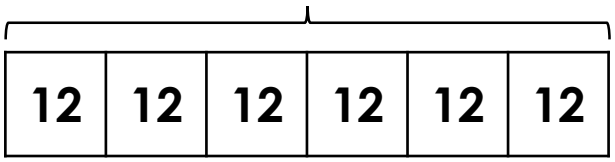
1a. Find the whole by using the bar model below to help you.



D VF

Percentages – Missing Values

1b. Find the whole by using the bar model below to help you.



D VF

2a. Circle the two facts could that help you complete the calculation below.

70% of 80 = ?

A. 40 is half of 80

B. 50% of 90 = 45

C. 10% of 80 = 80 ÷ 10

D VF

2b. Circle the two facts that could help you complete the calculation below.

30% of 120 = ?

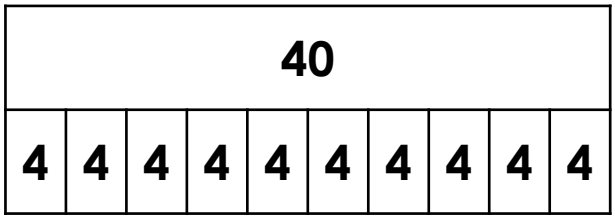
A. 120 ÷ 4 = 30

B. 10% of 120 = 12

C. 30% = 10% x 3

D VF

3a. Find the missing values by using the bar model below to help you.

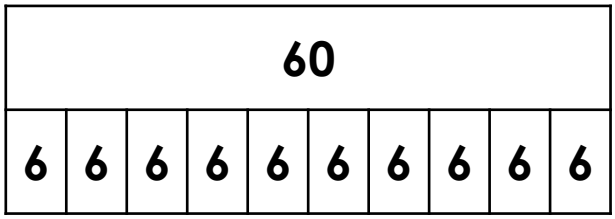


60% of 40 = ☐

☐ of 40 = 32

D VF

3b. Find the missing values by using the bar model below to help you.



30% of 60 = ☐

☐ of 60 = 42

D VF

4a. Trixie uses 70% of a bag of sugar to make cupcakes.

The bag had 200g of sugar when full.

How much sugar did she use?

D VF

4b. A dressmaker uses 90% of a roll of fabric.

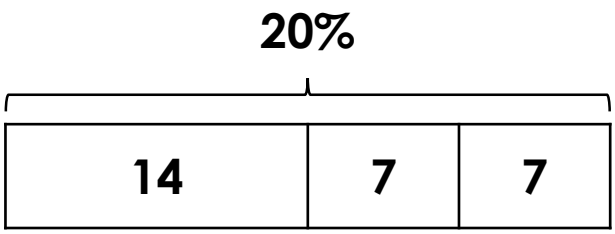
The roll had 500cm of fabric when full.

How much fabric did she use?

D VF

Percentages – Missing Values

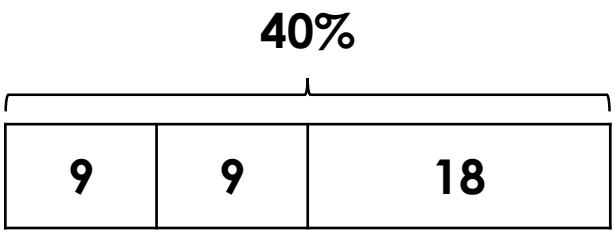
5a. Find the whole by using the bar model below to help you.



VF

Percentages – Missing Values

5b. Find the whole by using the bar model below to help you.



VF

6a. Circle the two facts could that help you complete the calculation below.

21% of 90 = ?

A. 90 ÷ 10 = 9

B. 50% of 90 = 45

C. 9 ÷ 10 = 0.9

VF

6b. Circle the two facts that could help you complete the calculation below.

11% of 150 = ?

A. 150 ÷ 2 = 75

B. 10% of 150 = 150 ÷ 10

C. 1% = 10% ÷ 10

VF

7a. Find the missing values.

5% of 60 = ☐

10% of ☐ = 84

41% of 30 = ☐

25% of ☐ = 15

VF

7b. Find the missing values.

9% of 200 = ☐

35% of ☐ = 140

15% of 70 = ☐

71% of ☐ = 504.1

VF

8a. A sweet shop makes 45% of its yearly profit in the month of December.

This December they made a profit of £5,400.

How much was their profit for the whole year?

VF

8b. The local pool uses 35% of the total water to run the water slides.

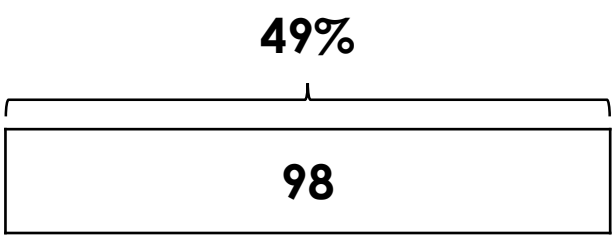
The total water used by the swimming pool is 12,000 gallons.

How much water do the slides use?

VF

Percentages – Missing Values

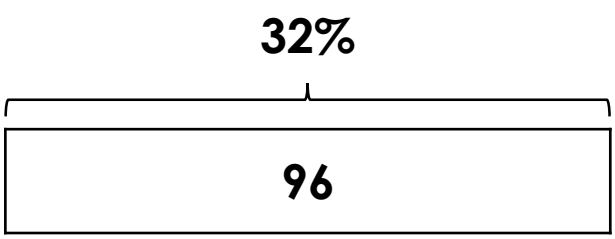
9a. If 49% of a whole is 98, what number is the whole?



GD VF

Percentages – Missing Values

9b. If 32% of a whole is 96, what number is the whole?



GD VF

10a. Circle the two facts could that help you complete the calculation below.

93% of 350 = ?

A. 350 ÷ 70 = 5

B. 10% of 35 = 3.5

C. 3 x 3.5 = 10.5

GD VF

10b. Circle the two facts that could help you complete the calculation below.

4% of 240 = ?

A. 240 ÷ 50 = 4.8

B. 2% = 10% ÷ 5

C. 10% of 240 = 24

GD VF

11a. Find the missing values.

7.5%	of	150	=				
64%	of		=	192			
19.5%	of	260	=				
14%	of		=	21			

GD VF

11b. Find the missing values.

21.5%	of	540	=				
89%	of		=	178			
3.5%	of	120	=				
31%	of		=	43.4			

GD VF

12a. A gardener is mixing compost and manure for his allotment. He makes 7kg of soil in total.

His final product is 62.5% manure.

How much manure did he use?
Give your answer in kilograms.

GD VF

12b. A chef is making fudge. He mixes peanut butter and sugar together. He makes 6kg of fudge in total.

The final product is 72.5% peanut butter.

How much peanut butter did he use?
Give your answer in kilograms.

GD VF