

Starter

5.0	95 × 12	6.0	62 × 15	7.0	45 × 36	8.0	67 × 98
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Starter answers

5.0	1140	6.0	930	7.0	1620	8.0	6566
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LO: to find a percentage of an amount.

Explain how you would find:

50% 1 0%

25% 1%

I
do

In yesterday's lesson we used these percentages...

1 0% 1% 50% 25%

How would I work out...

60% 30%

I
do

60% of 3500

I
do

30% of 3500

I
do

25% of 3500

I
do

15% of 3500

50% of 724 = _____

we
do

90% of 160 = _____

75% of 220 = _____

you
do

Task 1
20 mins

Complete questions in to your books

How many ways can you find 45% of 60?

Use similar strategies to find 60% of 45

What do you notice?

Does this always happen?

Can you find more examples?

we
do

we
do

Four children in a class were asked to find 20% of an amount, this is what they did:



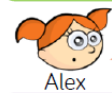
Whitney

I divided by 5 because 20% is the same as one fifth

I found one percent by dividing by 100, then I multiplied my answer by 20



Amir



Alex

I did 10% add 10%

I found ten percent by dividing by 10, then I multiplied my answer by 2



Jack

Who do you think has the most efficient method? Explain why.
Who do you think will end up getting the answer incorrect?

Answers

we
do

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Whitney

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Jack

Who do you think has the most efficient method? Explain why.
Who do you think will end up getting the answer incorrect?

All methods are acceptable ways of finding 20% Children may have different answers because they may find different methods easier. Discussion could be had around whether or not their preferred method is always the most efficient.

How many ways can you find 45% of 60?

Use similar strategies to find 60% of 45

What do you notice?

Does this always happen?
Can you find more examples?

Possible methods include:

- $10\% \times 4 + 5\%$
- $25\% + 20\%$
- $25\% + 10\% + 10\%$
- $50\% - 5\%$
- To find 60% of 45
- $10\% \times 6$
- $50\% + 10\%$
- $10\% \times 3$
- Children will notice that 45% of 60 = 60% of 45
- This always happens.