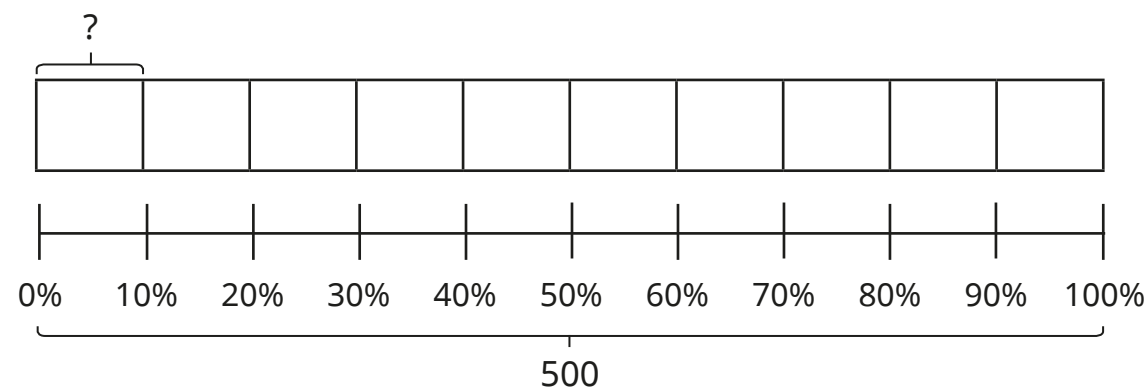


# Percentage of an amount – multi-step

- 1 a) Use the bar model to find 10% of 500



10% of 500 =

- b) Use your answer to part a) to help you complete the calculations.

20% of 500 =

70% of 500 =

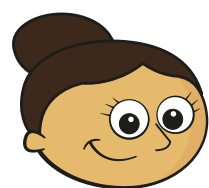
90% of 500 =

60% of 500 =

30% of 500 =

100% of 500 =

- 2 Dora is finding percentages.



To find 5%, I can find 10% and then halve it.

Explain why Dora is correct.

- 3 Work out the percentages of the amounts.

a) 5% of 40 =

d) 5% of 2,000 =

b) 5% of 400 =

e) 5% of 6,000 =

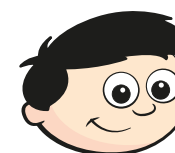
c) 5% of 4,000 =

f) 5% of 2,700 =

What do you notice about your answers?

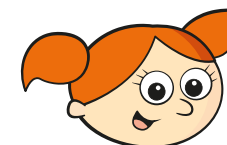
- 4 Dexter and Alex are asked to find 75% of 340

- a) Use Dexter's method to find 75% of 340



I will find 25% and multiply it by 3

- b) Use Alex's method to find 75% of 340



I will find 10% and multiply it by 7, then find 5% and add them together.

Are there any other methods you could use?

5 Here are some percentages.

20%	90%	60%	15%	55%	40%
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Talk to a partner about different methods for finding these percentages of an amount.



6 Calculate the percentages.

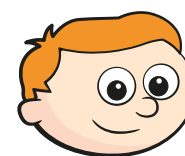
a) 20% of 1,000 = <input type="text"/>	d) 15% of 1,000 = <input type="text"/>
20% of 550 = <input type="text"/>	15% of 300 = <input type="text"/>
20% of 40 = <input type="text"/>	15% of 30 = <input type="text"/>

b) 90% of 1,000 = <input type="text"/>	e) 55% of 1,000 = <input type="text"/>
90% of 4,230 = <input type="text"/>	55% of 4,400 = <input type="text"/>
90% of 90 = <input type="text"/>	55% of 8 = <input type="text"/>

c) 60% of 1,000 = <input type="text"/>	f) 40% of 1,000 = <input type="text"/>
60% of 400 = <input type="text"/>	40% of 400 = <input type="text"/>
60% of 98 = <input type="text"/>	40% of 98 = <input type="text"/>

7 Ron is calculating these percentages.

10% of 20	20% of 10
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20% is double 10%,  
and 10 is half of 20, so I  
know these will both have  
the same answer.

Do you agree with Ron? \_\_\_\_\_

Explain your answer.

8 Here are two sets of percentage calculations.

20% of 40 = <input type="text"/>	25% of 60 = <input type="text"/>
40% of 20 = <input type="text"/>	60% of 25 = <input type="text"/>

a) Complete the calculations.

What do you notice about the answers?

b) Write two more sets of similar calculations and work out the answers.

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What do you notice?

Does this always happen?

Talk about it with a partner.

