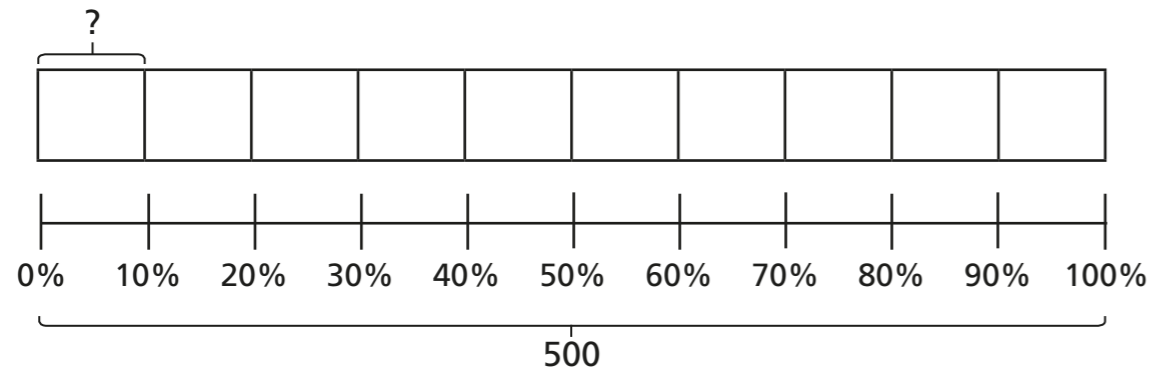


Percentage of an amount (2)

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

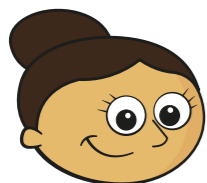


10% of 500 =

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

20% of 500 = <input type="text" value="100"/>	70% of 500 = <input type="text" value="350"/>
90% of 500 = <input type="text" value="450"/>	60% of 500 = <input type="text" value="300"/>
30% of 500 = <input type="text" value="150"/>	100% of 500 = <input type="text" value="500"/>

2



To find 5% you can find 10% and then halve it.

Use Dora's method to complete the calculations.

a) 5% of 40 = <input type="text" value="2"/>	d) 5% of 2,000 = <input type="text" value="100"/>
b) 5% of 400 = <input type="text" value="20"/>	e) 5% of 6,000 = <input type="text" value="300"/>
c) 5% of 4,000 = <input type="text" value="200"/>	

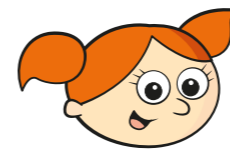
What do you notice about your answers?

3 Some children are asked to find 75% of 340



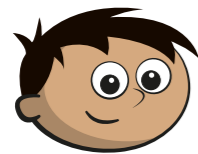
I will find 25% and multiply it by 3

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



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

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



I will find 25% and 50% and add them together.

c) Use Amir's method to find 75% of 340

255

d) Are there any other methods you could use?



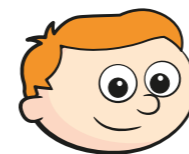
4 Talk to a partner about different methods for finding these percentages.

20% 90% 60% 15% 55% 40%

Use your preferred method to calculate the percentages.

- | | |
|--|--|
| a) 20% of 1,000 = <input type="text" value="200"/> | d) 15% of 1,000 = <input type="text" value="150"/> |
| 20% of 550 = <input type="text" value="110"/> | 15% of 300 = <input type="text" value="45"/> |
| 20% of 40 = <input type="text" value="8"/> | 15% of 30 = <input type="text" value="4.5"/> |
| b) 90% of 1,000 = <input type="text" value="900"/> | e) 55% of 1,000 = <input type="text" value="550"/> |
| 90% of 4,230 = <input type="text" value="3,807"/> | 55% of 4,400 = <input type="text" value="2,420"/> |
| 90% of 90 = <input type="text" value="81"/> | 55% of 8 = <input type="text" value="4.4"/> |
| c) 60% of 1,000 = <input type="text" value="600"/> | f) 40% of 1,000 = <input type="text" value="400"/> |
| 60% of 400 = <input type="text" value="240"/> | 40% of 400 = <input type="text" value="160"/> |
| 60% of 98 = <input type="text" value="58.8"/> | 40% of 98 = <input type="text" value="39.2"/> |

5 Ron is calculating these percentages.
10% of 20 20% of 10



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

How does Ron know this?

6 a) Complete the calculations.

- | | |
|--|---|
| 20% of 40 = <input type="text" value="8"/> | 25% of 60 = <input type="text" value="15"/> |
| 40% of 20 = <input type="text" value="8"/> | 60% of 25 = <input type="text" value="15"/> |

b) What do you notice about the answers?

Each column is the same.

c) Does this always happen? Investigate with other examples.

d) Talk about your findings with a partner.