Chapter 26

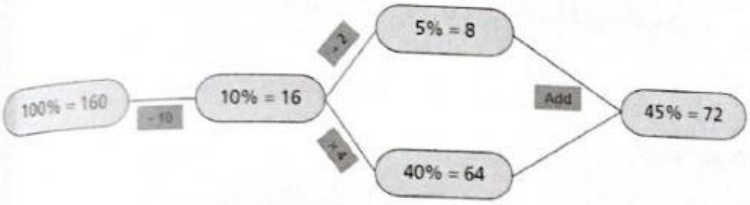
Percentages

Finding a percentage of an amount

Summary of key points

You can find a percentage of a number by breaking the calculation down into steps.

Remember that a percentage represents a number of parts per 100.



Exercise 1

Do not use a calculator in this exercise.

1 Work out:

a) 50% of 40 .....

b) 25% of $24 $.....

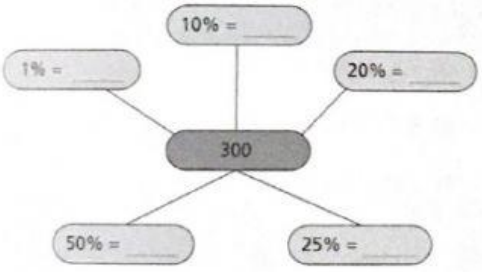
c) 10% of 30 kg .....kg

d) 20% of 70 cm .....cm

e) 75% of 28 .....

f) 5% of 400 mm .....mm

2 a) Complete the diagram to show different percentages of 300.



b) Use the diagram to complete the calculations.

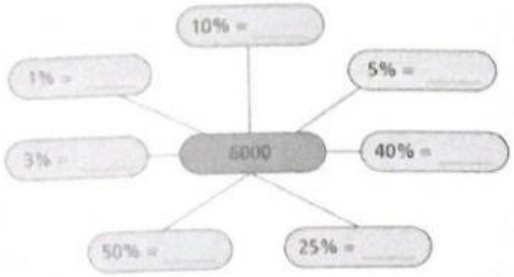
70% of 300 = ...

45% of 300 = ...

26% of 300 = ...

.....% of 300 = 180

3 a) Complete the diagram to show percentages of 6000.



b) Use the diagram to complete the calculations.

15% of 6000 = ...

8% of 6000 = ...

65% of 6000 = ...

.....% of 6000 = 1680

4 Match each calculation to its answer.

10% of 320	26
5% of 520	28
60% of 70	30
15% of 200	32
35% of 80	42

5 Use the numbers in the box to complete these statements.

	72	153	
195	175	84	120
	140	160	

a) 15% of 800 = ...

d) 2% of 8000 = ...

b) 30% of 240 = ...

e) 85% of 180 = ...

c) 35% of 400 = ...

f) 65% of 300 = ...

6 Work out:

a) 6% of 300 .....

b) 12% of $4000 .....

c) 7% of 1200 kg .....

d) 34% of 600 .....

7 Here is some information about a school.

840 children	60 teachers
50 classrooms	80 doors

a) 5% of the doors are broken. Find how many broken doors there are. .....

b) 15% of the teachers teach Maths. Work out the number of Maths teachers. .....

c) 40% of the classrooms are on the first floor. Work out how many classrooms this is. .....

d) 55% of the children are girls. Work out how many girls there are. .....

8 Nadine has **$300.**

a) She spends 20% of the money on a coat. How much does the coat cost? $.....

b) She spends 35% of the money she has **left** on some shoes. How much do the shoes cost? $.....

9 Use the **percentages from the box to complete the calculations.**

.....% of 80 = 20	.....% of 120 = 18	45% 30% 25% 15%
.....% of 90 = 27	.....% of 160 = 72	

10 **Challenge**

Use the **digits 1, 2, 3, 5 and 6 to complete this statement.**

☐☐ % of 360 = ☐☐☐