

Finding Percentages of Numbers

50% of the counters are red.

25% of the counters are green.



In mathematics, a *percentage* is a way of expressing a number as a fraction of 100 (per cent meaning "per hundred"). 1% means 1 out of 100. 50% means 50 out of 100, which is the same as half.



Percentages Around Us



Percentages are all around us, from food labels and exam results, to sales in shops.

Finding Percentages of Numbers

30% of 40

This box represents 40

- 1) Find 10% first. This can be done by dividing the number by 10

$$10\% \text{ of } 40 = 4$$

- 2) If $10\% = 4$, then $30\% = 12$
(there are 3 lots of 10% in 30%)

$$30\% \text{ of } 40 = 12$$

100%	= 40
90%	= 36
80%	= 32
70%	= 28
60%	= 24
50%	= 20
40%	= 16
30%	= 12
20%	= 8
10%	= 4

Reveal



Finding Percentages of Numbers

Find 10% first

Multiply this by how many lots of 10% there are

Answer

30% of 60

60 6

6 18

60% of 20

20 2

2 12

20% of 200

200 = 20

20 40

PreviewPoint
Animation disabled only

Remember:

- ✓ To find 10%, first divide the whole number by 10.



Finding Smaller Percentages of Numbers

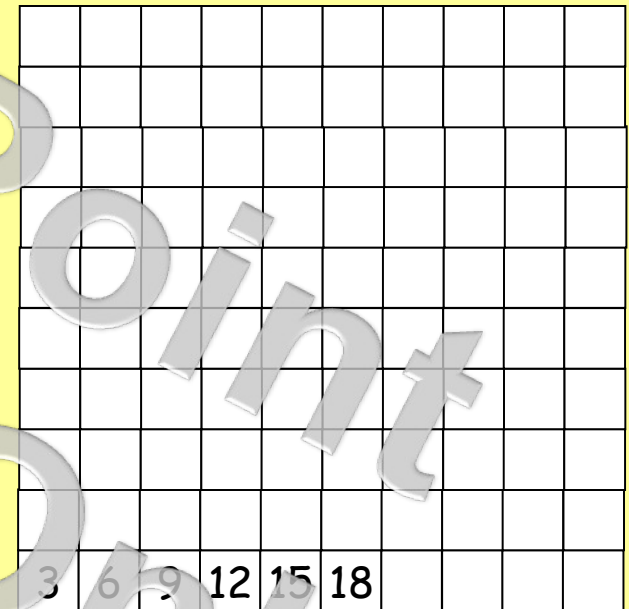
This box represents 300.
Each square is worth 1%

6% of 300

- 1) Find 1% first. This can be done by dividing the number by 100

$$1\% \text{ of } 300 = 3$$

- 2) If 1% = 3, then 6% = 18
(there are 6 lots of 1% in 6%)



$$6\% \text{ of } 300 = 18$$

Reveal



Finding Percentages of Numbers

Find 1% first

Multiply this by how many lots of 1% there are

Answer

6% of 400

400 = 4

4 4

15% of 80

80 0.8

0.8 12

7% of 500

500 = 5

5 5



Remember:
✓ To find 1%, first divide the whole number by 100.

Finding Percentages of Numbers

Click on the question to reveal the answer

20% of 40

99% of 200

3% of 1,000

20% of 30

30% of 50

5% of 200

2% of 500

40% of 80

12% of 600

70% of 60

60% of 20

2% of 20,000