

**LO:** *Calculate* a percentage of an amount

# Think Task

Percentages are always out of 100.

The number 100 is really important when trying to work with percentages.

**LO: Calculate** a percentage of an amount

## How to calculate a percentage of an amount

50% ~ halve it or divide by 2      *You divide 100 by 2 to get 50*

25% ~ halve it again or divide by 4      *You divide 100 by 4 to get 25*

10% ~ divide by 10      *You divide 100 by 10 to get 10*

5% ~ halve 10% or divide by 20      *You divide 100 by 20 to get 5*

1% ~ divide by 100      *You divide 100 by 100 to get 1*

*You might want to make notes on this page*

**LO: Calculate** a percentage of an amount

Let's practice

**160**

$$50\% = \underline{80}$$

$$25\% = \underline{40}$$

$$10\% = \underline{16}$$

$$5\% = \underline{8}$$

$$1\% = \underline{1.6}$$



**LO: Calculate** a percentage of an amount

Now you try



40

50% = \_\_\_\_\_

25% = \_\_\_\_\_

10% = \_\_\_\_\_

5% = \_\_\_\_\_

1% = \_\_\_\_\_

240

50% = \_\_\_\_\_

25% = \_\_\_\_\_

10% = \_\_\_\_\_

5% = \_\_\_\_\_

1% = \_\_\_\_\_

540

50% = \_\_\_\_\_

25% = \_\_\_\_\_

10% = \_\_\_\_\_

5% = \_\_\_\_\_

1% = \_\_\_\_\_

**LO: Calculate** a percentage of an amount

## Answers



40

$$50\% = \underline{20}$$

$$25\% = \underline{10}$$

$$10\% = \underline{4}$$

$$5\% = \underline{2}$$

$$1\% = \underline{0.4}$$

240

$$50\% = \underline{120}$$

$$25\% = \underline{60}$$

$$10\% = \underline{24}$$

$$5\% = \underline{12}$$

$$1\% = \underline{2.4}$$

540

$$50\% = \underline{270}$$

$$25\% = \underline{135}$$

$$10\% = \underline{54}$$

$$5\% = \underline{27}$$

$$1\% = \underline{5.4}$$

**LO: Calculate** a percentage of an amount

What about these?

**240**

What is 30% of 240?

Method 1

Method 2

$$50\% = \underline{120}$$

$$25\% = \underline{60}$$

$$10\% = \underline{24}$$

$$5\% = \underline{12}$$

$$1\% = \underline{2.4}$$

$$10\% = 24$$

$$+10\% = 24$$

$$\underline{+10\% = 24}$$

$$30\% = 72$$

$$25\% = 60$$

$$\underline{+5\% = 12}$$

$$30\% = 72$$

*There are lots of different ways to make 30%  
Can you think of any others?*



**LO: Calculate** a percentage of an amount

What about these?

240

What is 45% of 240?

Method 1

Method 2

$$50\% = \underline{120}$$

$$25\% = \underline{60}$$

$$10\% = \underline{24}$$

$$5\% = \underline{12}$$

$$1\% = \underline{2.4}$$

$$10\% = 24$$

$$+10\% = 24$$

$$+10\% = 24$$

$$+10\% = 24$$

$$+ 5\% = 12$$

$$45\% = 108$$

$$50\% = 120$$

$$\underline{-5\% = 12}$$

$$45\% = 108$$

*There are lots of different ways to make 45%  
Can you think of any others?*



**LO: Calculate** a percentage of an amount

## What about these?

**240**

What is 8% of 240?

Method 1

$$\begin{aligned} 5\% &= 12 \\ +1\% &= 2.4 \\ +1\% &= 2.4 \\ +1\% &= 2.4 \\ \hline 8\% &= 19.2 \end{aligned}$$

Method 2

$$\begin{aligned} 10\% &= 24 \\ - 1\% &= 2.4 \\ \hline - 1\% &= 2.4 \\ 8\% &= 19.2 \end{aligned}$$

$$50\% = \underline{120}$$

$$25\% = \underline{60}$$

$$10\% = \underline{24}$$

$$5\% = \underline{12}$$

$$1\% = \underline{2.4}$$

*There are lots of different ways to make 8%  
Can you think of any others?*





**LO: Calculate** a percentage of an amount

Now you try

- a) What is 20% of 70
- b) What is 80% of 70

- c) What is 65% of 180
- d) What is 87% of 180

- e) What is 3% of 120
- f) What is 12.5% of 120

Work out  
50%, 25%,  
10%, 5% and  
1% first.



**LO: Calculate** a percentage of an amount

## Answers

- a) 14
- b) 56

- c) 117
- d) 156.6

- e) 3.6
- f) 15

Work out  
50%, 25%,  
10%, 5% and  
1% first.

