

# Crack the Code

# Percentage Change

Calculate all of your percentages to 1 decimal place.

<b>A</b>	The number of pupils in a class increases from 28 to 32. Find the percentage change in the number of pupils.	<b>B</b>	Bill buys £425 of shares. One year later they are worth £453. Find Bill's percentage profit.
<b>C</b>	Mercy buys a TV for £55, refurbishes it and sells it for £72. Calculate her percentage profit.	<b>D</b>	A fridge that is bought for £180 gets damaged and has to be sold for £145. What is the percentage loss?
<b>E</b>	Over a four week period a puppy increases in weight from 2.4 kg to 3.1 kg. Calculate the percentage increase.	<b>F</b>	Talia reduces her working hours from 35 hours per week to 30 hours per week. What percentage decrease is this?
<b>G</b>	Lily's height increases from 135 cm to 138 cm. What is the percentage change in her height?	<b>H</b>	The number of ants in a colony decrease from 550 to 490. Calculate the percentage change?
<b>I</b>	A company buys reams of A4 paper for £1.28 and sells them for £3.99. What is their percentage profit?	<b>J</b>	An antique dealer buys a painting for £800, but finds it is fake and has to sell it for £50. What is his percentage loss?
<b>K</b>	A lawn is 4 m by 5 m. A gardener increases the length and width of the lawn both by 1 m. What is the percentage increase in the area of the lawn?	<b>L</b>	A cube measures 5 cm by 5 cm by 5 cm. If its length, width and height are all increase by 10%, calculate the percentage increase in the volume of the cube.

To get the three-digit code, add all your answers together and round to the nearest integer.