



Crack the Code



Percentage Change

Calculate all of your percentages to 1 decimal place.

A	The number of pupils in a class increases from 28 to 32. Find the percentage change in the number of pupils. 14.3%	B	Bill buys £425 of shares. One year later they are worth £453. Find Bill's percentage profit. 6.6%
C	Mercy buys a TV for £55, refurbishes it and sells it for £72. Calculate her percentage profit. 30.9%	D	A fridge that is bought for £180 gets damaged and has to be sold for £145. What is the percentage loss? 19.4%
E	Over a four week period a puppy increases in weight from 2.4 kg to 3.1 kg. Calculate the percentage increase. 29.2%	F	Talia reduces her working hours from 35 hours per week to 30 hours per week. What percentage decrease is this? 14.3%
G	Lily's height increases from 135 cm to 138 cm. What is the percentage change in her height? 2.2%	H	The number of ants in a colony decrease from 550 to 490. Calculate the percentage change? 10.9%
I	A company buys reams of A4 paper for £1.28 and sells them for £3.99. What is their percentage profit? 211.7%	J	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? 93.8%
K	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? 50%	L	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. 33.1%

To get the three-digit code, add all your answers together and round to the nearest integer. **516.4 → 516**