FINDING A PERCENTAGE CHANGE

To find a percentage change, use:

percentage change =
$$\frac{\text{change}}{\text{original amount}} \times 100\%$$

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Example 21 Finding a percentage change

- a The price of a mobile phone increases from \$250 to \$280. Find the percentage increase.
- The population of a town decreases from 3220 to 2985. Find the percentage decrease and round to 1 decimal place.

SOLUTION

Increase = \$280 - \$250 = \$30

Percentage increase =
$$\frac{30}{250} \times \frac{100}{1}\%$$

= 12%

Decrease = 3220 - 2985= 235

Percentage decrease =
$$\frac{235}{3220} \times \frac{100}{1}\%$$

= 7.3% (to 1 d.p)

EXPLANATION

First find the actual increase.

Divide the increase by the original amount and multiply by 100%.

First find the actual decrease.

Divide the decrease by the original population. Round as indicated.