

Percentages – Calculating a percentage change

Facts

In order to calculate percentage change:

- 1 Work out how much the value has changed using subtraction
- 2 Apply the percentage change formula

$$\text{Percentage change} = \frac{\text{Change}}{\text{Original}} \times 100$$

A child is 153 cm at the age of 10. By the age of 14 the child is 170 cm. What is the percentage change?

First work out the difference

$$170 \text{ cm} - 153 \text{ cm} = 17 \text{ cm}$$

$$\frac{17 \text{ cm}}{153 \text{ cm}} \times 100\% = 11.111111\ldots$$

Next round the answer to 2 decimal places.

The percentage change is 11.11%