

18th August



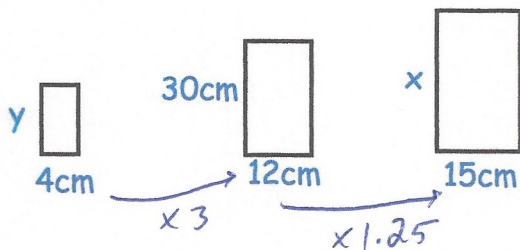
Corbettmaths

Solve the inequality $2x - 1 < 9$

$$2x < 10$$

$$x < 5$$

Not drawn accurately



The diagram shows three similar rectangles.

Work out the value of x.

$$37.5 \text{ cm}$$

Work out the value of y.

$$10 \text{ cm}$$

Bank of Maths

Double your money in 15 years.

The average annual growth for your investment is 4.5%

Martyn has some money to invest and sees this advert.

Will Martyn double his money in 15 years by investing his money with "Bank of Maths?"

$$100 \times 1.045^{15} = 193.528 \dots$$

No

There are 6000 people at an ice hockey match.

The announcer says this is exactly 40% more people than the previous match.

Explain why the announcer is incorrect.

$$140\% = 6000$$

$$1\% = 42.857 \dots$$

$$100\% = 4285.71 \dots$$

It cannot be exactly 40% more as that would mean a

non-integer (decimal) number of people