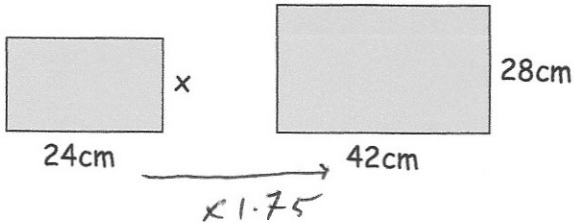




Solve the inequality  $2x - 1 < 9$

$$2x < 10$$

$$x < 5$$



The diagram shows two similar rectangles

Find  $x$

$$28 \div 1.75 = 16 \text{ cm}$$

Find the area of the smaller rectangle

$$24 \times 16 = 384 \text{ cm}^2$$

## Bank of Maths

Double your money in 15 years.

The average annual growth for your investment is 4.5%

Tahir has some money to invest and sees this advert.

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

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

No, 93.5% increase.

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.

$$140\% \text{ of } y = 6000$$

$$1\% \text{ of } y = 42.857..$$

$$y = 4285.714...$$

that would mean 4285.714.. people attended - not possible