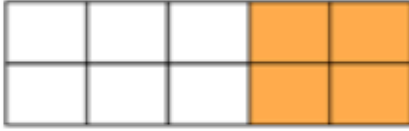


March 31st

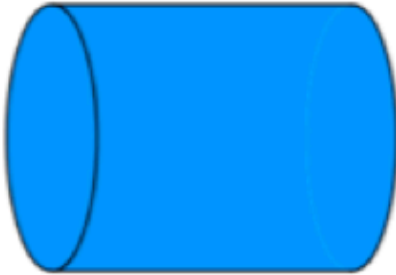
5-a-day

Numeracy

What fraction of this shape is shaded? Give your answer in it's simplest form.



$$\frac{4}{10} = \frac{2}{5}$$



Name this solid

Cylinder

37 x 18

$$\begin{array}{r} 37 \\ \times 18 \\ \hline 296 \\ 370 \\ \hline 666 \end{array}$$

2837 + 829

$$\begin{array}{r} 2837 \\ + 829 \\ \hline 3666 \end{array}$$

Solve $x + 5 = 12$

$$x = 7$$

Solve $3x = 24$

$$x = 8$$

Expand $5(x + 4)$

$$5x + 20$$

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Foundation

Work out

$$\frac{9}{10} \times \frac{1}{3}$$

$$\frac{9}{30} = \frac{3}{10}$$

Give your answer in its simplest form

Work out the area of a rectangle with length 6cm and width 2cm.

The rectangle is enlarged by scale factor two.

Write down the length and width of the enlarged rectangle.

12cm & 4cm

How many times larger is the area of the enlarged rectangle than the area of the original rectangle?

$$6 \times 2 = 12$$
$$12 \times 4 = 48$$

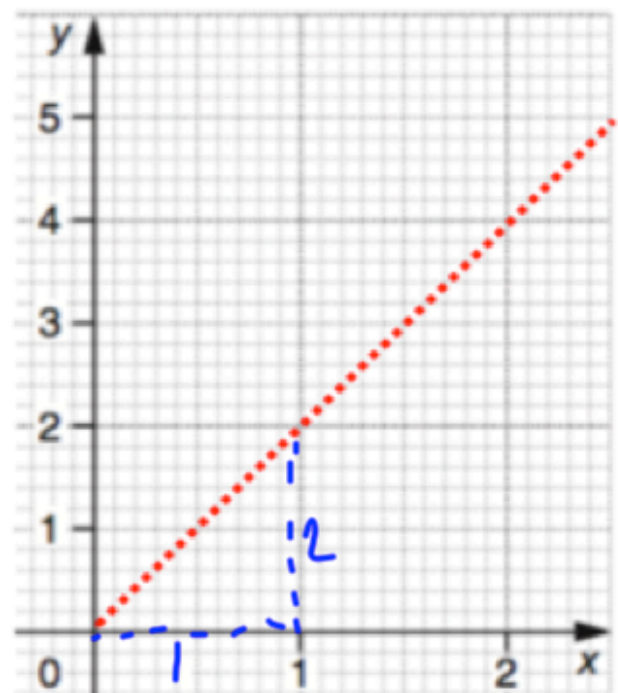
4 times larger.

What is the gradient of the red line?

$$2 \div 1 = 2$$

What is the equation of the red line?

$$y = 2x$$



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Higher

Circle the values which are rational

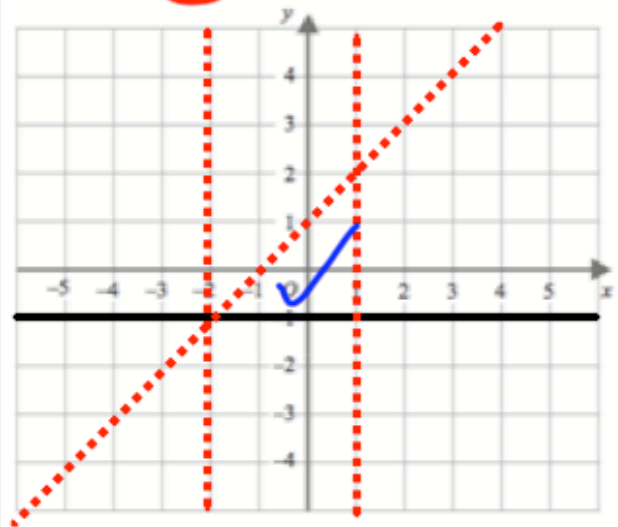
4^0 $\sqrt{64}$ $\sqrt{3}$
 $100^{0.5}$ π

Solve

$$5 < 2x + 1 < 17$$

$$4 < 2x < 16$$

$$2 < x < 8$$



Show the region which satisfies

$$-2 < x < 1$$

$$y \geq -1$$

$$y < x + 1$$

Every time a ball bounces of a surface, it rises to $\frac{4}{5}$ of the previous height.

A ball is dropped from 5 metres and it allows to bounce freely.

What is the smallest number of bounces until its rebound height is less than 3 metres?

$$5 \times 0.8^t$$

$$5 \times 0.8^2 = 3.2m$$

$$5 \times 0.8^3 = 2.56m$$

3 bounces

Simplify

$$\frac{n^2 - 1}{n + 1} \times \frac{2}{n - 2}$$

$$\frac{(n-1)(n+1)}{n+1} \times \frac{2}{n-2} = \frac{2(n-1)(n+1)}{(n+1)(n-2)}$$

$$\frac{2(n-1)}{n-2}$$