

Simplify $p + p + p + p$

$$4p$$

Solve $3x = 21$

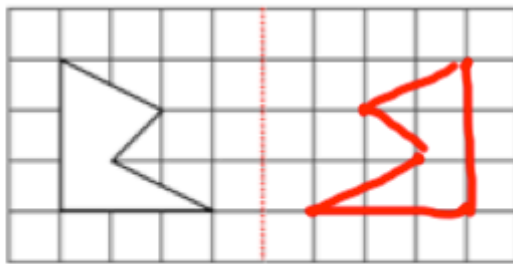
$$3x = 21$$
$$x = 7$$

An apple costs 12p

An orange costs 20p

Write down an expression for the cost in pence of buying x apples and y oranges

$$12x + 20y$$



Reflect the shape in the red line

Work out $20 - 6 \times 2$

$$20 - 12$$

$$= 8$$

$$3 - \sqrt{64}$$

$$3 - 8$$

$$= -5$$

The probability of getting a square number when rolling a dice is $\frac{1}{3}$

What is the probability of not getting a square number?

$$\frac{2}{3}$$

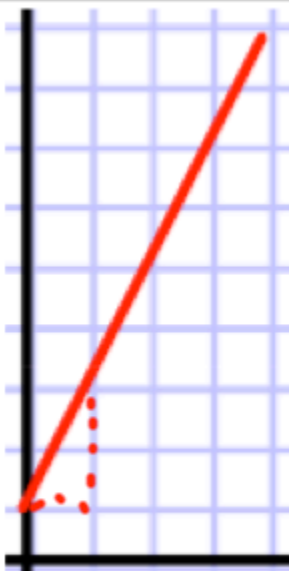
$$3\frac{1}{2} - 2\frac{2}{3}$$

$$\begin{aligned}\frac{7}{2} - \frac{8}{3} &= \frac{21}{6} - \frac{16}{6} \\ &= \frac{5}{6}\end{aligned}$$

The probability a train arrives in Antrim on time is 0.7.

If 50 trains arrive in one week, how many will be on time?

$$0.7 \times 50 = 35$$



What is the gradient of this line?

$$2$$

What is the equation of the line?

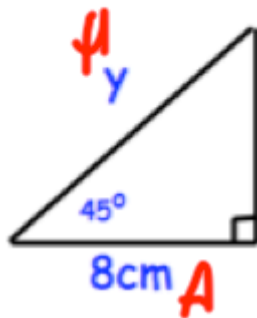
$$y = 2x + 1$$

Write 84 000 000 in standard form

$$8.4 \times 10^7$$

Write 4.5×10^{-4} as an ordinary number.

$$0.00045$$

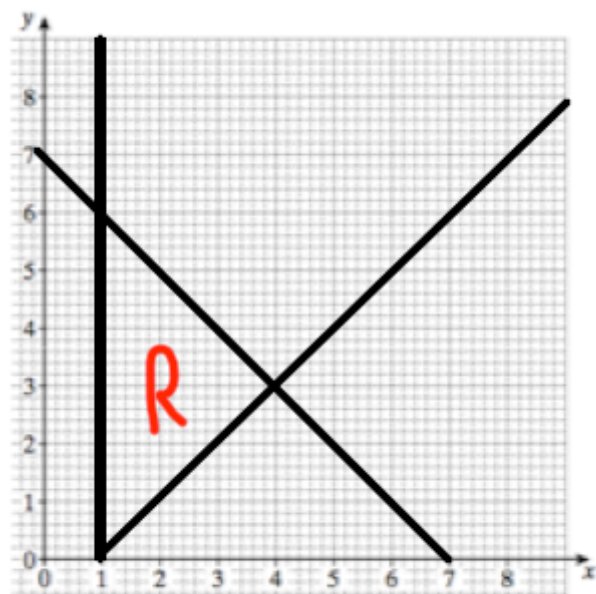
Find y

$$y = \frac{8}{\cos 45} =$$

$$11.31 \text{ cm}$$

$$\begin{aligned} x &\geq 1 \\ y &\geq x - 1 \\ x + y &\leq 7 \end{aligned}$$

On the grid to the right, mark the region with an R that satisfies the inequalities above.



Solve

$$x^2 - 9 = 0$$

$$\begin{aligned} (x-3)(x+3) &= 0 \\ x &= 3 \text{ or } -3 \end{aligned}$$

Express $0.372727272\dots$ as a fraction.

$$\begin{aligned} x &= 0.37272\dots \\ 10x &= 3.7272\dots \\ 1000x &= 372.7272\dots \end{aligned}$$

$$990x = 369$$

$$x = \frac{369}{990} = \frac{41}{110}$$