

17th November

Corbettmaths

Solve the inequality $3x - 8 > 16$

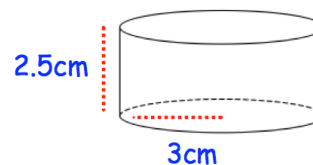
Height, h, cm	Frequency
$110 \leq h < 120$	13
$120 \leq h < 130$	5
$130 \leq h < 140$	2

Work out an estimate for the mean

A fish tank has sprung a leak, at the base of the tank.
5% of the water is lost every minute.

How much water is lost from the tank after five minutes?

Calculate the volume of the cylinder.
Give your answer in terms of π
State the units of your answer.



In England, a 10 mile train journey costs £6.40
In Ireland, a 20km train journey costs €10.85

Use 1 mile = 1.6 kilometres
At the time £1 = €1.40

Which train journey is better value?

16th November

Corbettmaths

Write 0.815 as a simplified fraction

Expand and simplify

$$(y + 12)(y - 7)$$

Ottawa is the capital city of Canada.
The population of Ottawa is 890,000.
This population is 2.5% of the total
population of Canada.

What is the total population of Canada?

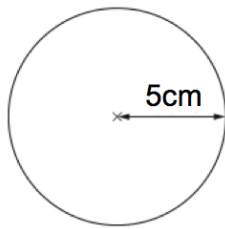
What is the lowest common multiple
(LCM) of 36 and 45.

A 4 metre long ladder is placed
against a wall. The angle between
the ladder and the ground is 75° .
How far up the wall does the ladder
reach?

15th November

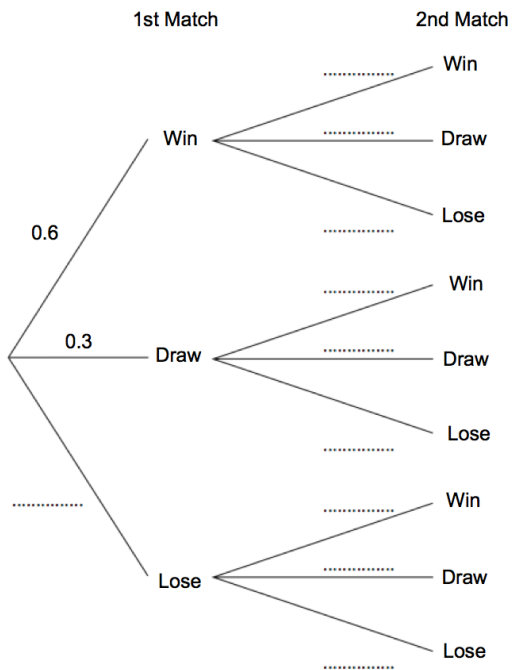


Corbettmaths



Find the circumference of the circle.
Give your answer in terms of π

Solve $x^2 - 2x - 24 = 0$



A football team has two matches to play.
The probability that the team wins is 0.6.
The probability that the team draws is 0.3.

Complete the tree diagram.

Work out the probability that the team will win both matches.

The speed limit on a road is 40mph.
A scooter drives 7 miles in 12 minutes.
Is the scooter breaking the speed



limit?