25th July

Higher 5-a-day



The probability that a football team wins a match is 0.3

The probability that they draw is 0.5

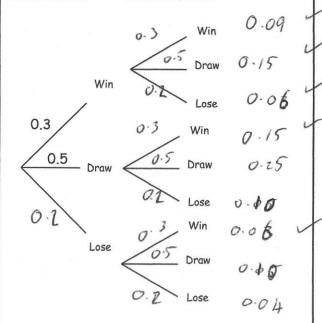
The football team plays two matches

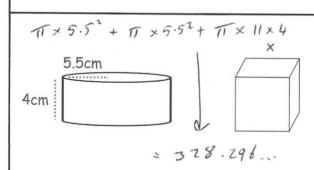
A win is worth 3 points, a draw 1 point and a loss 0 points

Calculate the probability that the team scores at least 3 points over the two matches.

first match

second match Corbettmaths





The cylinder and cube below have the same surface area.

Find the side length of the cube, x.

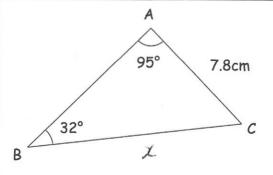
$$6x^{2} > 328.29643...$$

$$x^{2} = 54.716...$$

$$x = 7.397cn$$

Find the length of BC

$$\frac{\chi}{5/h.95} = \frac{7.8}{5/h.32}$$



w is inversely proportional to the square root of c.

When
$$w = 2$$
, $c = 100$.

Find w when
$$c = 400$$
.

$$W \propto \frac{1}{\sqrt{c}} \qquad W = \frac{20}{\sqrt{c}}$$

$$W = \frac{k}{\sqrt{c}} \qquad W = \frac{20}{\sqrt{acc}} = 1$$

$$Z = \frac{k}{10}$$

$$K = 20$$