



Three fair six sided dice are rolled.

Work out the probability of three even numbers.

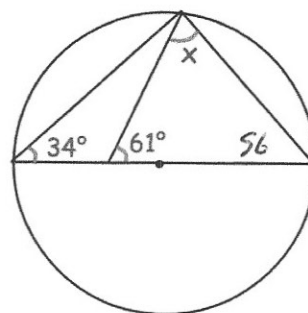
$$P(EEE) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$$

$$\frac{1}{8}$$

Work out the value of x

$$180 - 34 - 90 = 56$$

$$180 - 61 - 56 = 63^\circ$$



Simplify

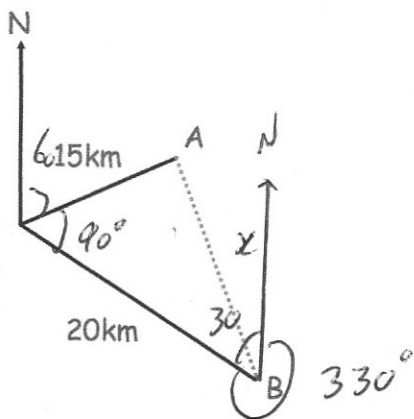
$$\frac{x^2 + 6x + 9}{x^2 - 2x - 15}$$

$$\frac{(x+3)(x+3)}{(x-5)(x+3)}$$

$$\frac{x+3}{x-5}$$

Helicopter A traveled 15km on a bearing of 060°

Helicopter B traveled 20km on a bearing of 150°



Calculate the distance between A and B.

$$x^2 = 20^2 + 15^2$$

$$x^2 = 625$$

$$x = 25 \text{ km}$$

The pilot of helicopter B wants to return to the starting point.

What bearing should she take?

$$330^\circ$$