

2nd June

Higher 5-a-day



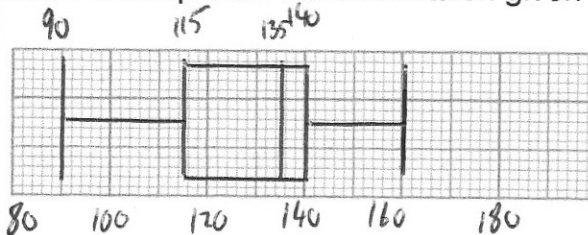
Corbettmaths

Lower Quartile	115
Median	135
Highest Value	160
Range	70
Interquartile Range	25

lowest
 $160 - 70 = 90$

UQ
 $115 + 25 = 140$

Draw a box plot for the information given



Solve using the quadratic formula

$$4x^2 - 12x + 9 = 0$$

$$a = 4$$

$$b = -12$$

$$c = 9$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

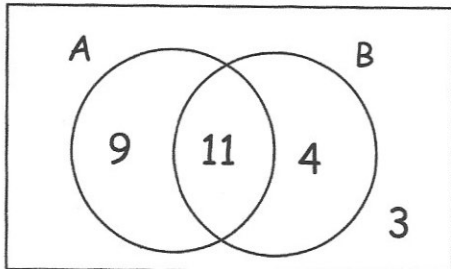
$$x = \frac{12 \pm \sqrt{144 - 144}}{8}$$

$$x = \frac{12 \pm \sqrt{0}}{8}$$

$$x = \frac{12}{8}$$

$$x = 1.5$$

ξ

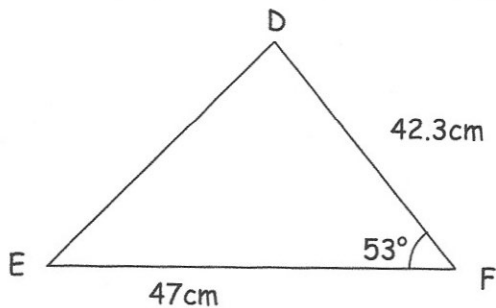


Write down $P(A \cap B)$

$$\frac{11}{27}$$

Write down $P(A' \cap B')$

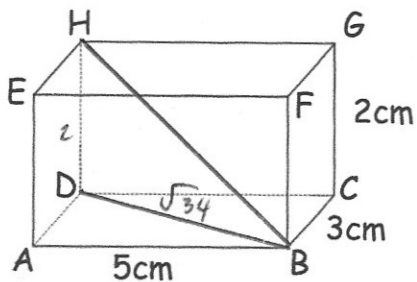
$$\frac{3}{27} = \frac{1}{9}$$



Find the area of DEF

$$\frac{1}{2} \times 47 \times 42.3 \times \sin 53$$

$$= 793.88 \text{ cm}^2$$



Calculate the length of diagonal BH.

Give your answer as a surd.

$$BD^2 = 3^2 + 5^2$$

$$= 9 + 25 = 34$$

$$BD = \sqrt{34}$$

$$BH^2 = 2^2 + (\sqrt{34})^2$$

$$= 4 + 34 = 38$$

$$BH = \sqrt{38} \text{ cm}$$