



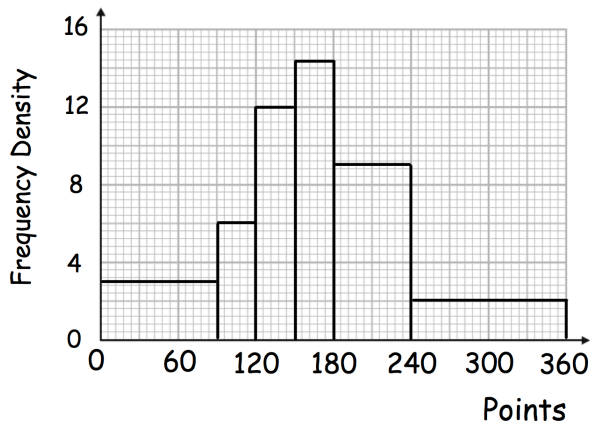
Make w the subject of

$$c = \frac{6(a - w)}{w + 1}$$

The ratio of red to green apples in a barrel is 3:5.
An apple is picked at random and then replaced into the barrel.
Another apple is picked at random and then replaced.
Finally a third apple is picked at random.

Find the probability that the three apples are **not** all the same colour.

The histogram below shows information about the points scored by 2022 contestants.



Work out an estimate of the interquartile range.

Work out an estimate of the mean.

Estimate the percentage of the contestants that scored less than 200 points.