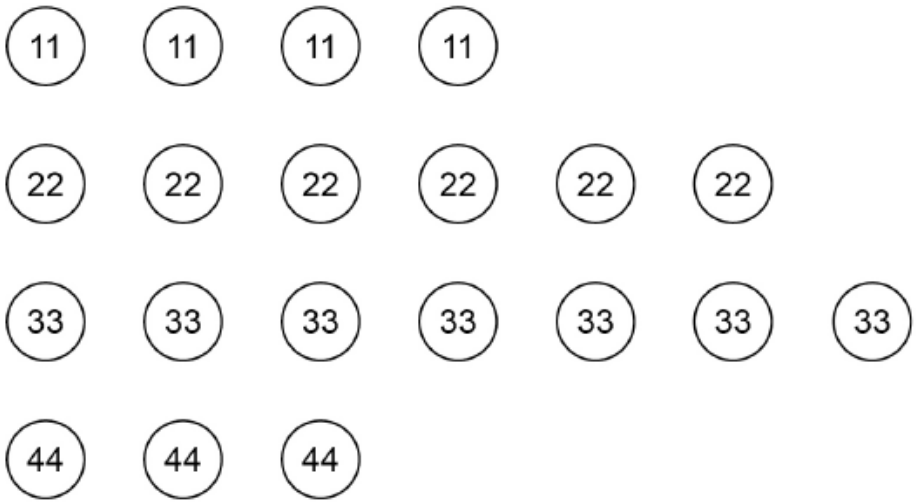
AQA – Probability – GCSE Mathematics Probability-2

1. May/2020/Paper_2H/No.27

These 20 discs are in a bag.



Two of the discs are taken at random from the bag.

Work out the probability that the first disc has a **smaller** number than the second disc.

[4 marks]

Answer _____

2. June/2019/Paper_2F/No.4(b)

(b) One of the passengers is chosen at random.

Write down the probability that the passenger is in Business Class.

[1 mark]

Answer _____

3. June/2019/Paper_2H/No.12

A biased coin is thrown 250 times.

The relative frequency of Heads is worked out after every 50 throws.

Total number of throws	50	100	150	200	250
Relative frequency	0.4	0.29	0.4	0.32	0.3

Circle the best estimate of the probability of Heads.

[1 mark]

0.3 0.32 0.342 0.4

4. Nov/2019/Paper_2F/No.12

When a spinner is spun, it shows

Blue (B) or Green (G) or Red (R) or White (W).

When a coin is tossed, it shows

Heads (H) or Tails (T).

The spinner is spun and the coin is tossed.

Complete this list of possible outcomes.

[2 marks]

B H

5. Nov/2019/Paper_2F/No.23

The result of a game is Win, Lose or Draw.

After 80 games

relative frequency of the result Win is 0.4

relative frequency of the result Lose is 0.25

How many of the games had the result Draw?

[3 marks]

Answer _____

6. Nov/2019/Paper_2H/No.17

A packet contains 80 sweets.

The flavour of each sweet is lemon, orange or apple.

A sweet is taken at random.

(a) P(lemon or orange) $\leqslant 0.85$

Work out the minimum possible number of **apple** sweets in the packet.

[2 marks]

Answer _____

(b) P(lemon or apple) < 0.71

There are 31 lemon sweets.

Work out the maximum possible number of **apple** sweets in the packet.

[2 marks]

Answer _____