The table below shows information about calls coming through to a company
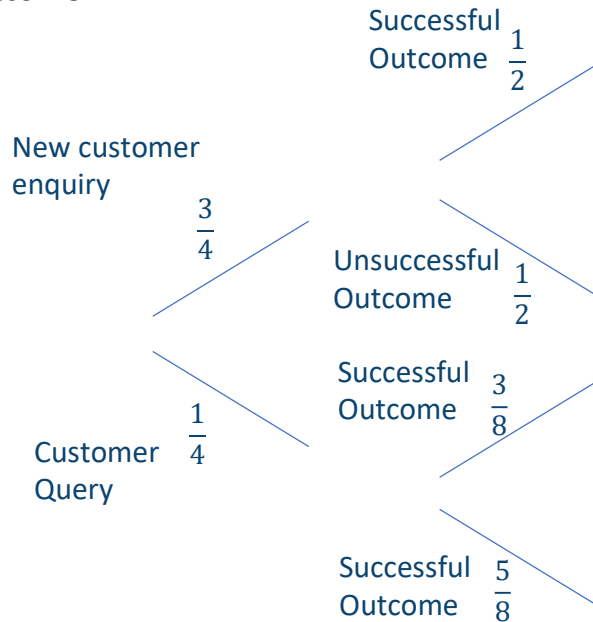
Type of Call	Proportion of all calls	Successful outcome
New customer enquiry	$\frac{3}{4}$	$\frac{1}{2}$
Customer Query	$\frac{1}{4}$	$\frac{3}{8}$

Represent this using a probability tree then find the probability of a customer query having a successful outcome.

New customer enquiry $\frac{3}{4}$

Successful Outcome $\frac{1}{2}$

Unsuccessful Outcome $\frac{1}{2}$

Customer Query $\frac{1}{4}$

Successful Outcome $\frac{3}{8}$
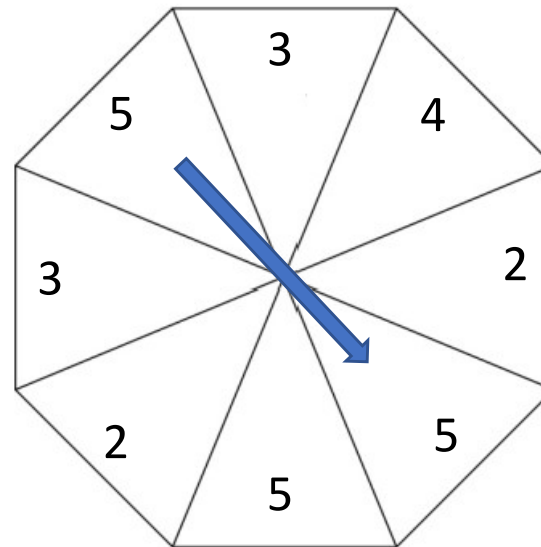
Successful Outcome $\frac{5}{8}$

Probability of a customer query having a successful outcome
$= \frac{1}{4} \times \frac{3}{8} = \frac{3}{32}$

There are 12 male and 15 female students in a group. What is the probability that a randomly chosen student will be female?

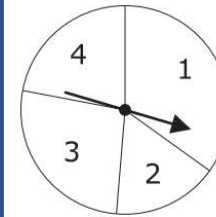$$\frac{females}{number\ of\ people} = \frac{15}{27}$$

Here is a fair spinner. When the arrow is spun, it has an equal chance of landing in each section.

Find the probability of landing on a 2. Give your answer as a fraction.

$$\frac{2}{8} = \frac{1}{4}$$

Here is a pointer

Here are the probabilities of landing on a 1, 2 or 3

Number	1	2	3	4
Probability	0.38	0.17	0.29	

Find the probability of landing on a 4

$$0.38 + 0.17 + 0.29 = 0.84$$

$$1 - 0.84 = 0.16$$

Probability of landing on a 4 is 0.16

The table shows information about swimmers attending a pool.

	Adults	Children
Males	23	21
Females	22	25

Find the probability a randomly chosen swimmer is an adult male.

$$23 + 21 + 22 + 25 = 91$$

Probability $= \frac{21}{91}$