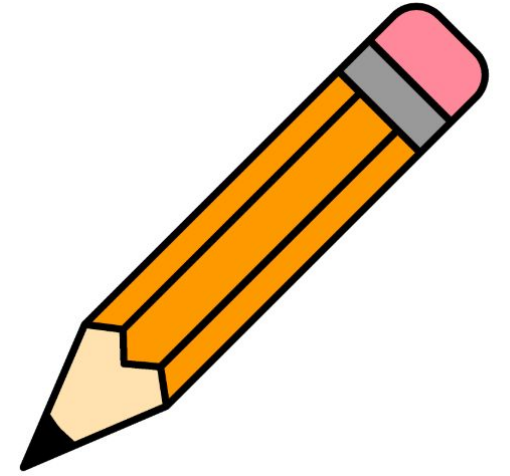


Welcome!

Do you have...?

1) your pen/pencil? →

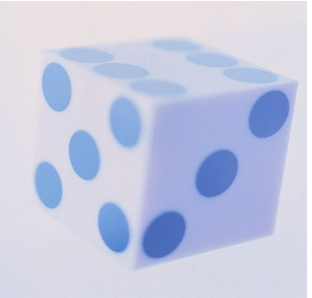
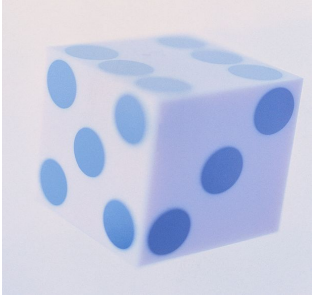
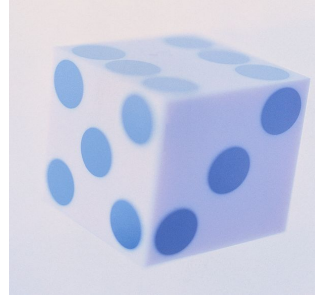
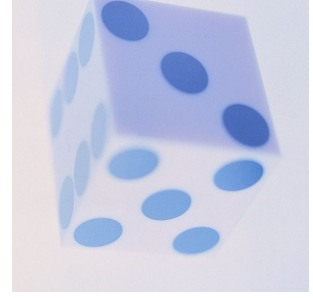
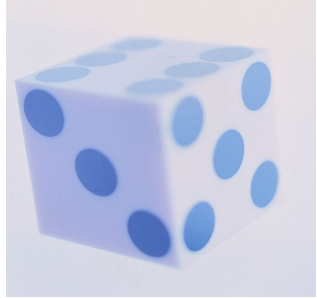
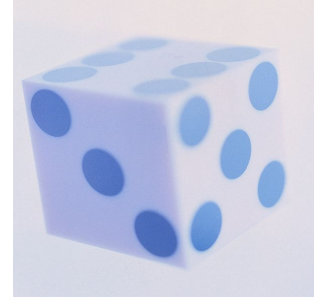
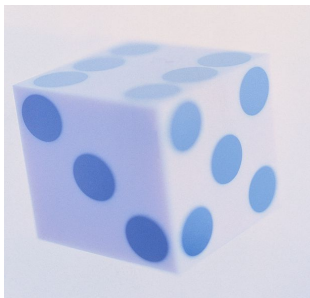
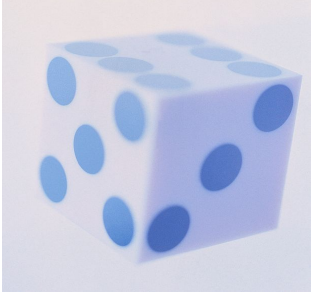
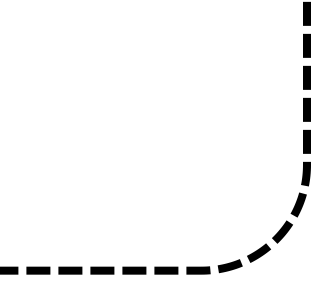
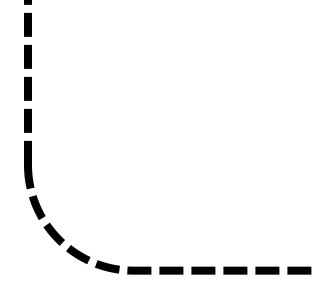
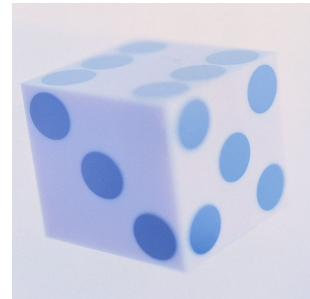
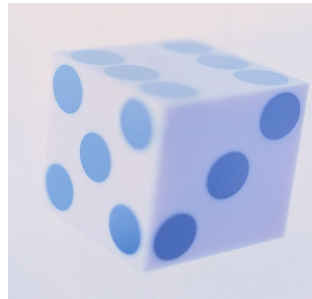
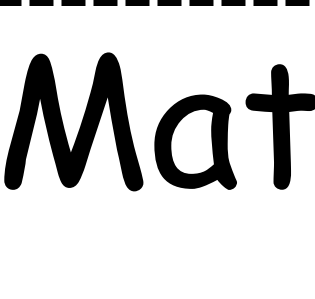
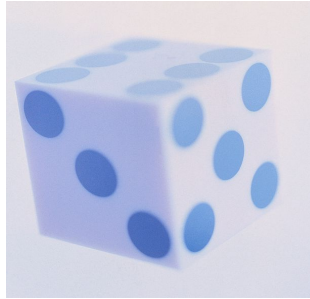
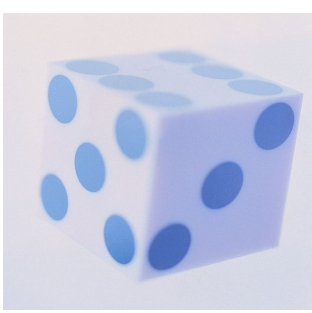
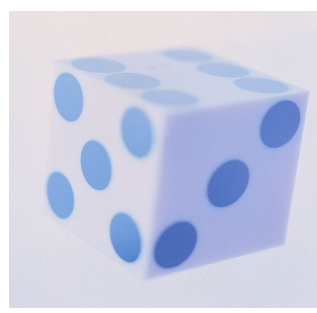
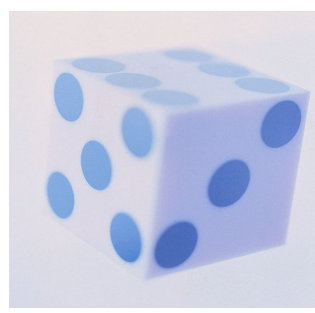
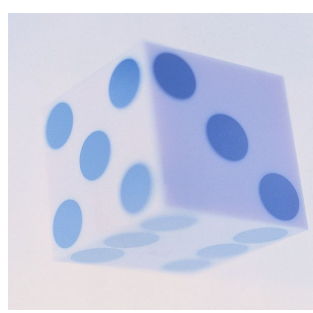
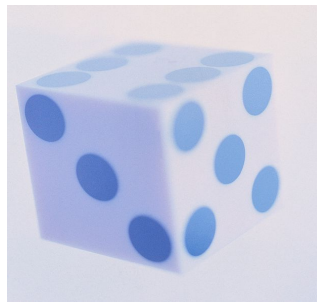
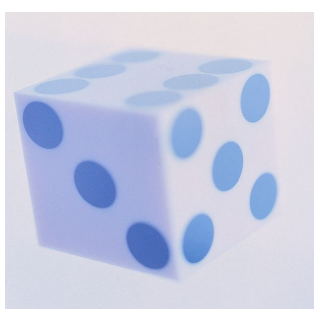
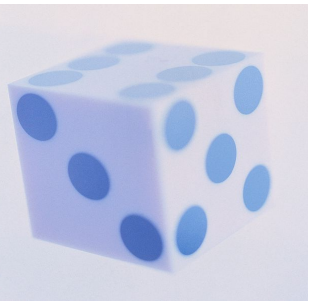


← 2) your notebook/paper?



3) some water? →



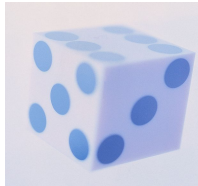
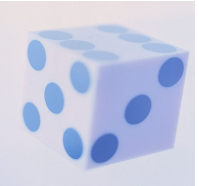


Welcome to Maths!

Probability



What is probability?

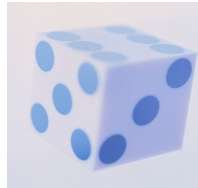
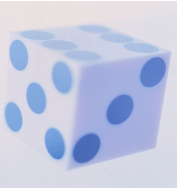




What is probability?



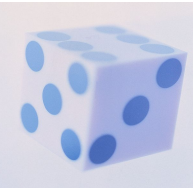
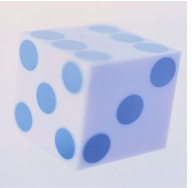
- Probability is about if something will happen in the **future**.





What is probability?

- Probability is about if something will happen in the **future**.
- It is a **chance** that something will happen.

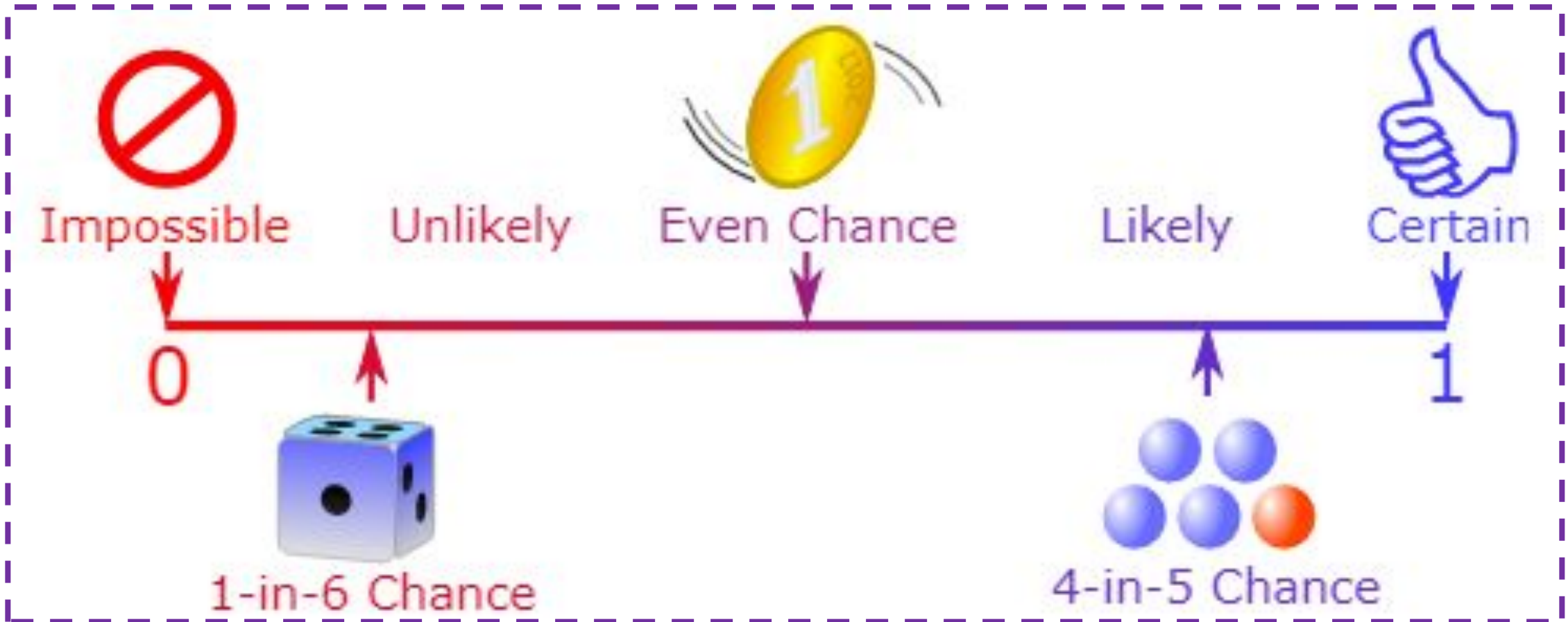




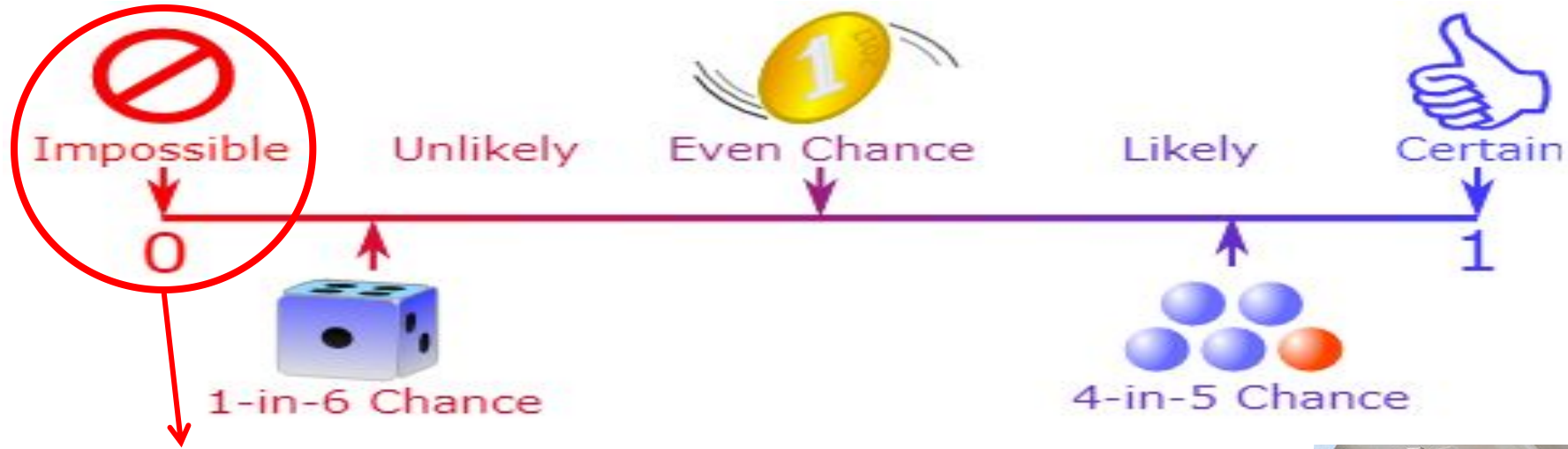
What is probability?

- Probability is about if something will happen in the **future**.
- It is a **chance** that something will happen.
- Sometimes it's all about **luck**!

Probability can be shown on a line:



Probability on a line



Impossible is no chance of it happening.

Example: A lion will come into your house now and start drinking milk tea.



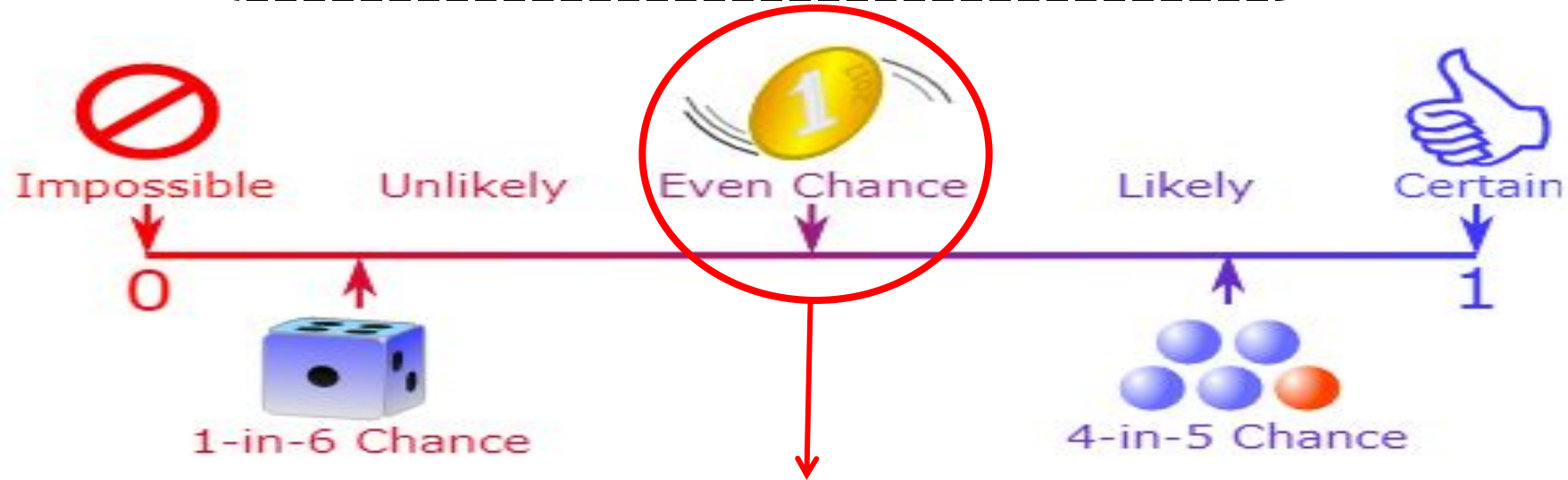
Probability on a line



Unlikely is a small chance of happening.
Example: You might hurt your toe today.

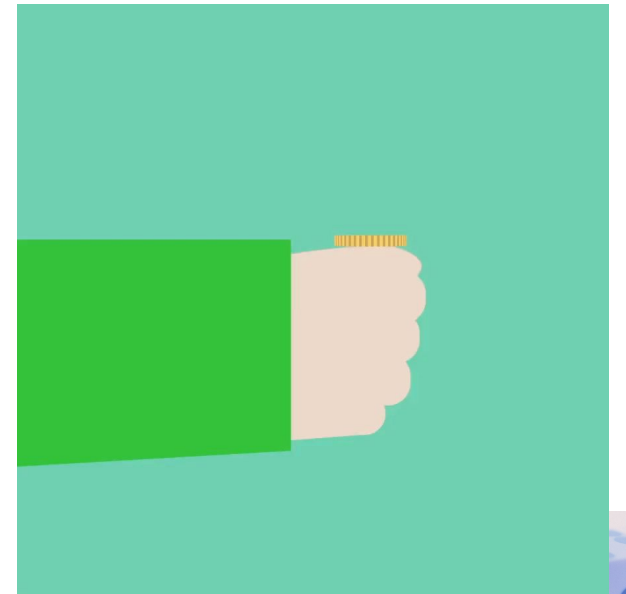


Probability on a line



Even chance is when something might happen or might not happen.

Example: When you flip a coin and there are only two possible sides it can land on.



Probability on a line



Likely is a strong chance of something happening.

Example: Your teacher is going to give you homework.



Probability on a line

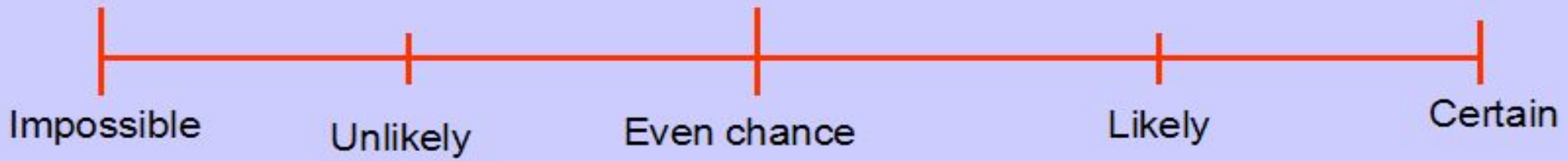


Certain is that something will definitely happen.

Example: You will breathe today.



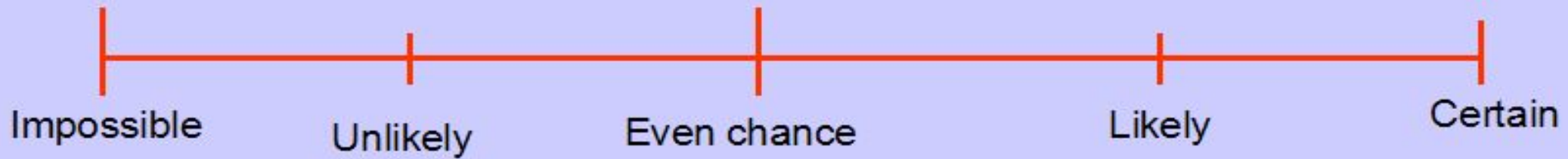
Look at the following questions.
Decide what the probability of
each one will be.



Ready?



Probability on a line



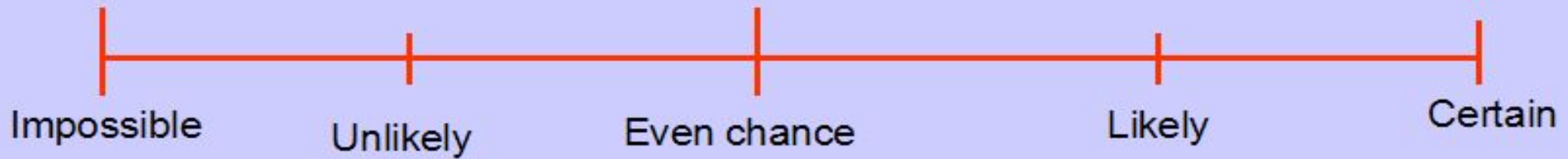
What is the probability of the following statement?

'You will be taller next month'.





Probability on a line



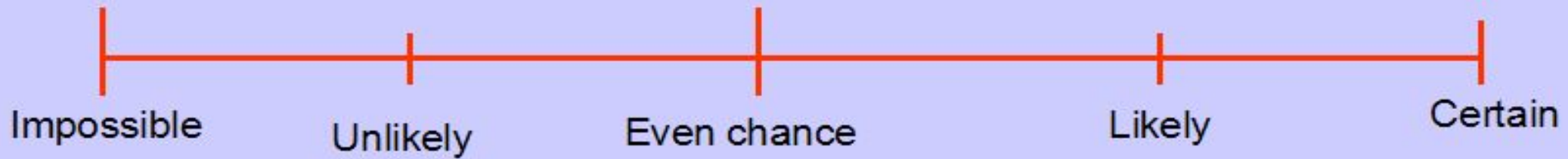
What is the probability of the following statement?

'You will see a dragon in the playground'.





Probability on a line



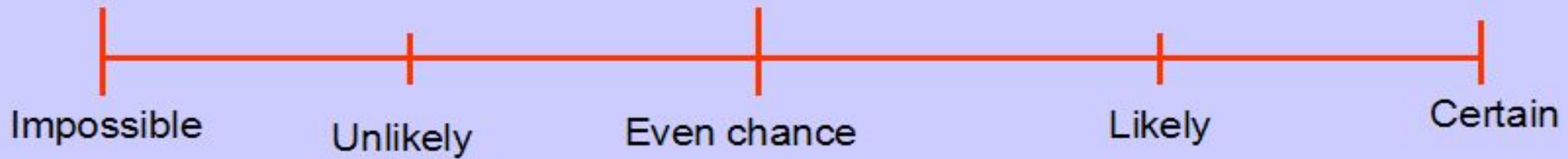
What is the probability of the following statement?

'You will go to sleep tonight'.





Probability on a line



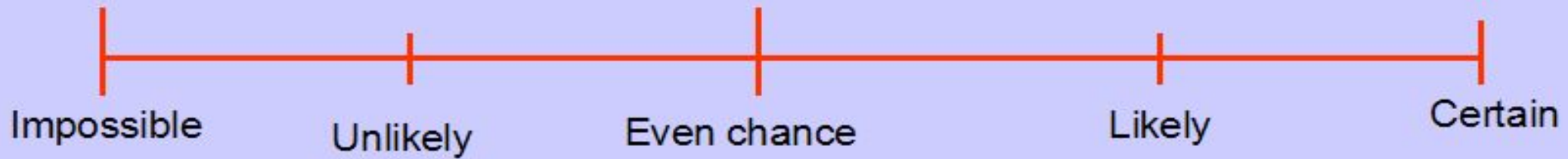
What is the probability of the following statement?

'The next baby to be born in HCMC will be a boy'.





Probability on a line



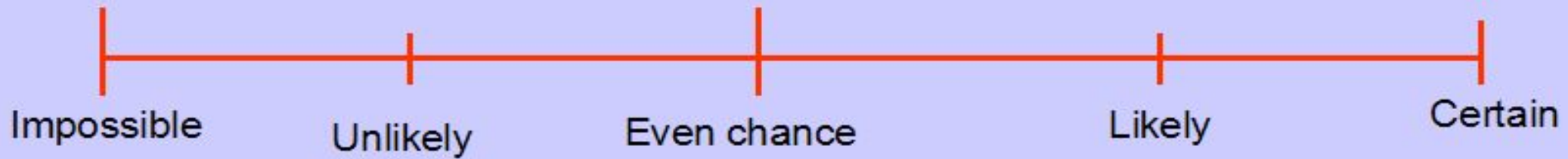
What is the probability of the following statement?

'Someone in the class will have a birthday this month'.





Probability on a line



What is the probability of the following statement?

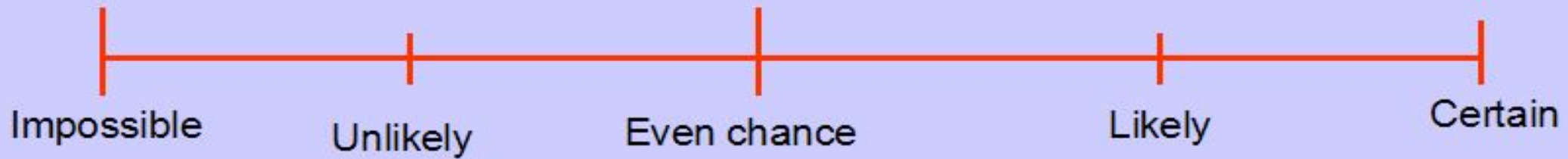
'Everyone in the class will get a 10 in their test results'.

10





Probability on a line



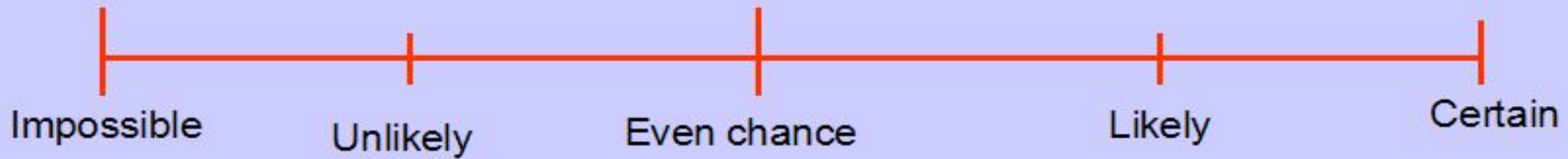
What is the probability of the following statement?

'The Sun will rise tomorrow'.



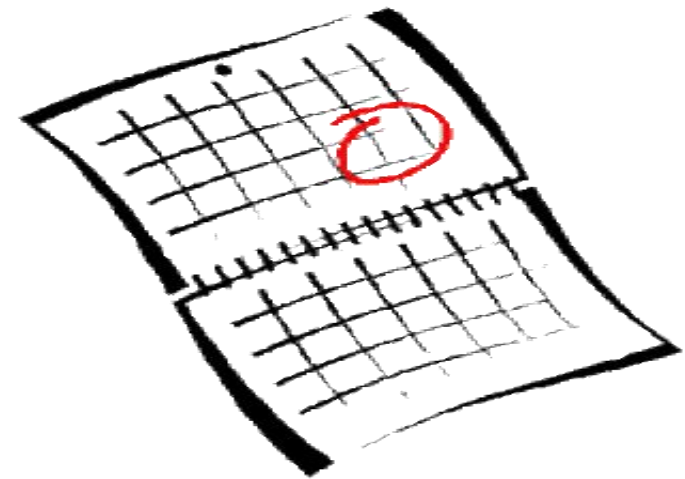


Probability on a line



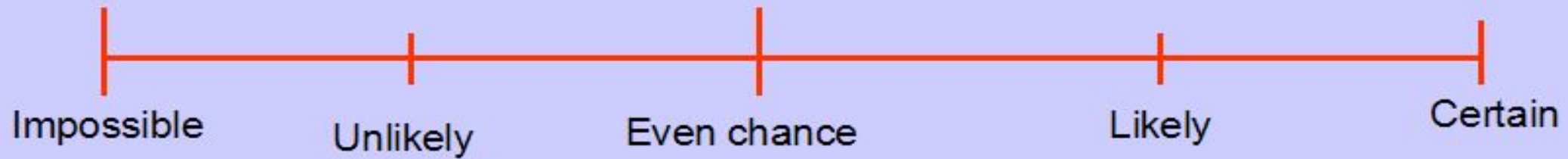
What is the probability of the following statement?

'1st July 2021 will be a Thursday'.



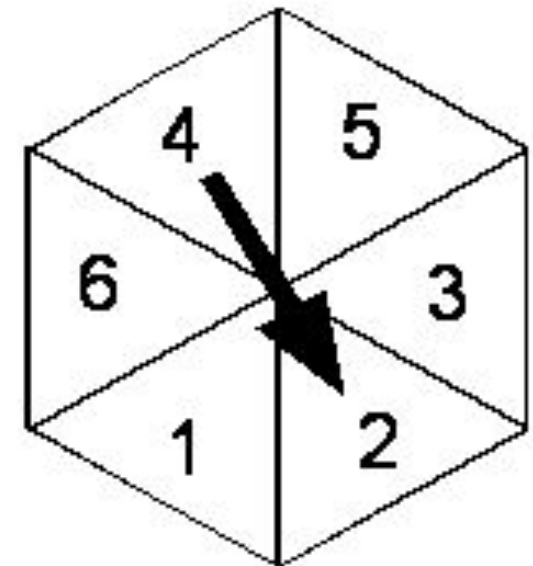


Probability on a line



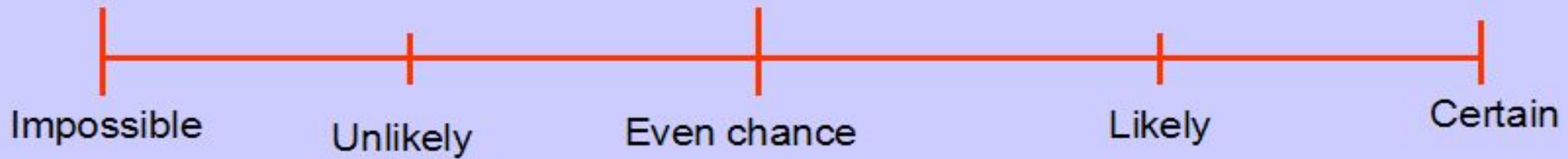
What is the probability of the following statement?

'I will get an even number on this spinner'.





Probability on a line



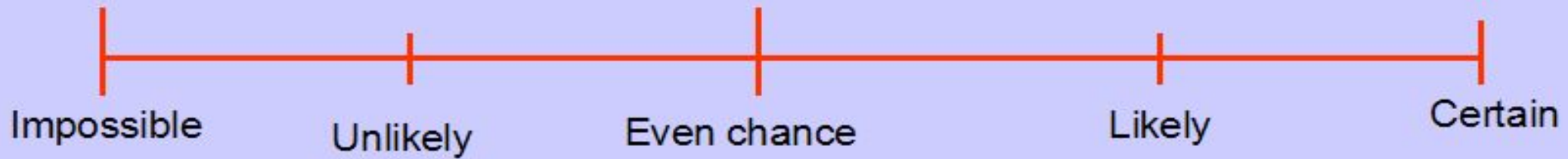
What is the probability of the following statement?

'The class will listen to their kind and caring teacher'.





Probability on a line



What is the probability of the following statement?

'Your teacher will lose weight'.

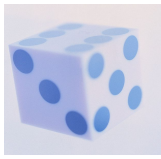




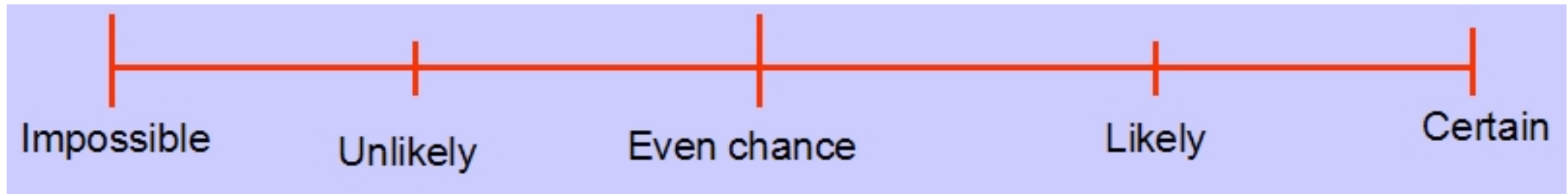
End of Period 1



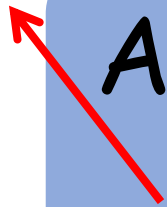
Period 2



Ways to write probability

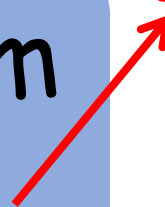


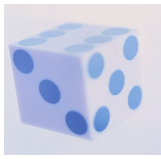
0



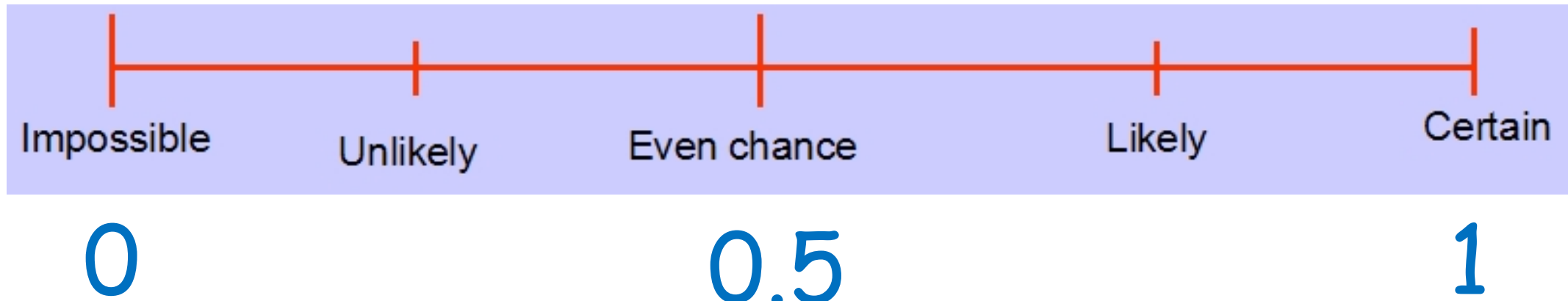
As a number, probability is from
0 (impossible) to 1 (certain).

1

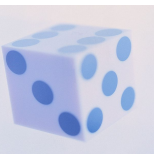


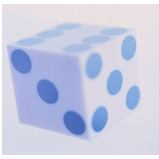


Ways to write probability

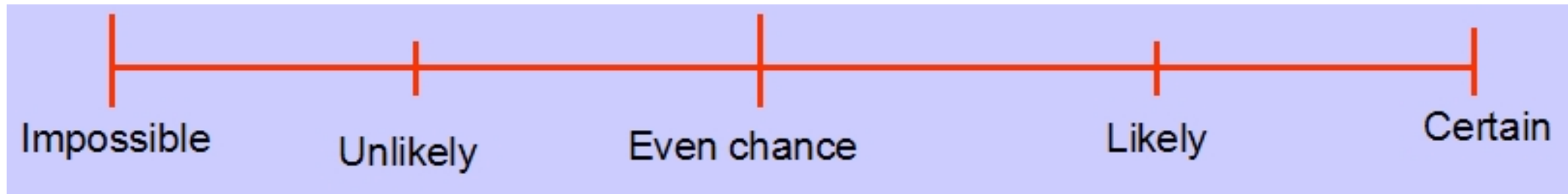


decimals





Ways to write probability



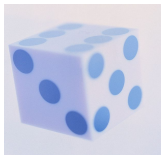
0

$\frac{1}{2}$

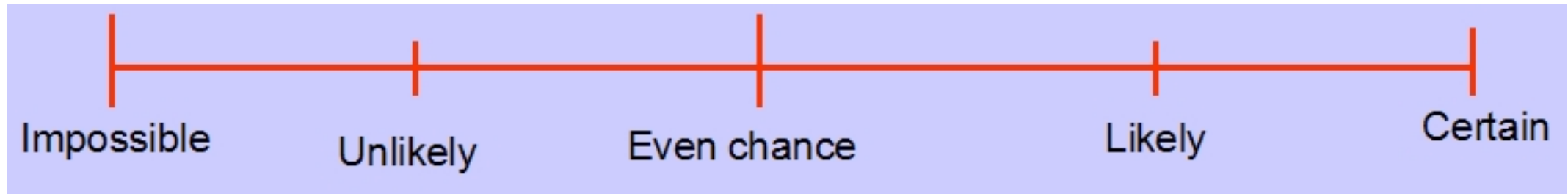
1

fractions





Ways to write probability



0%

50%

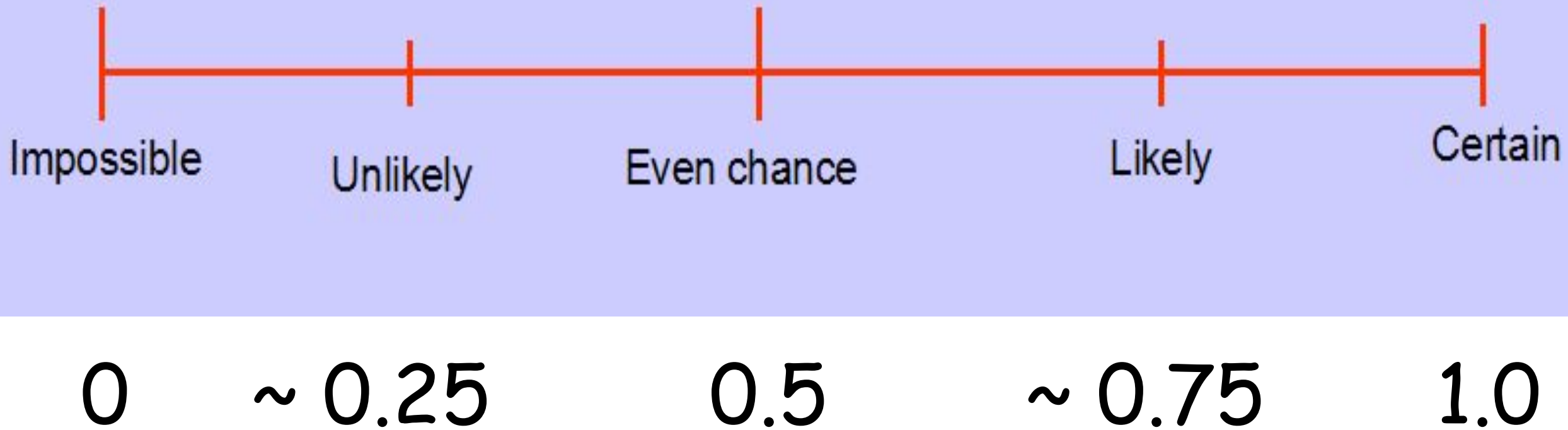
100%

percentages



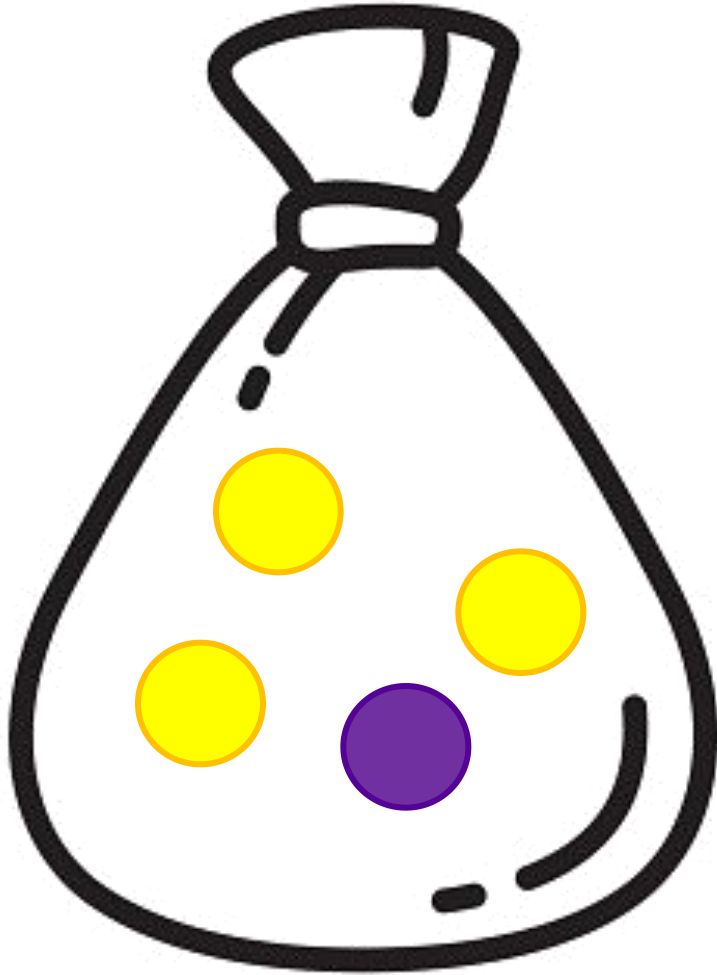


Probability written as decimals





Probability written as decimals



Here is a bag of marbles.

It contains 3 yellow marbles and 1 purple marble.

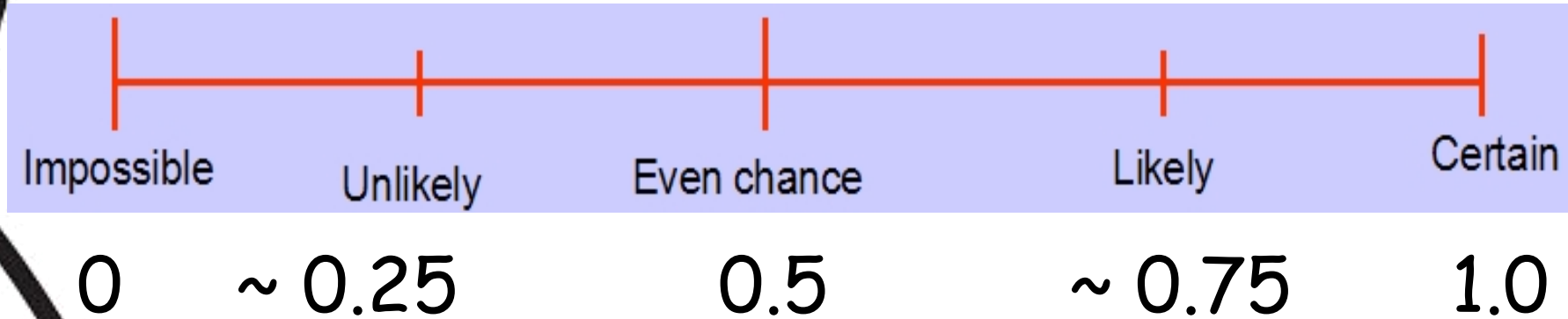
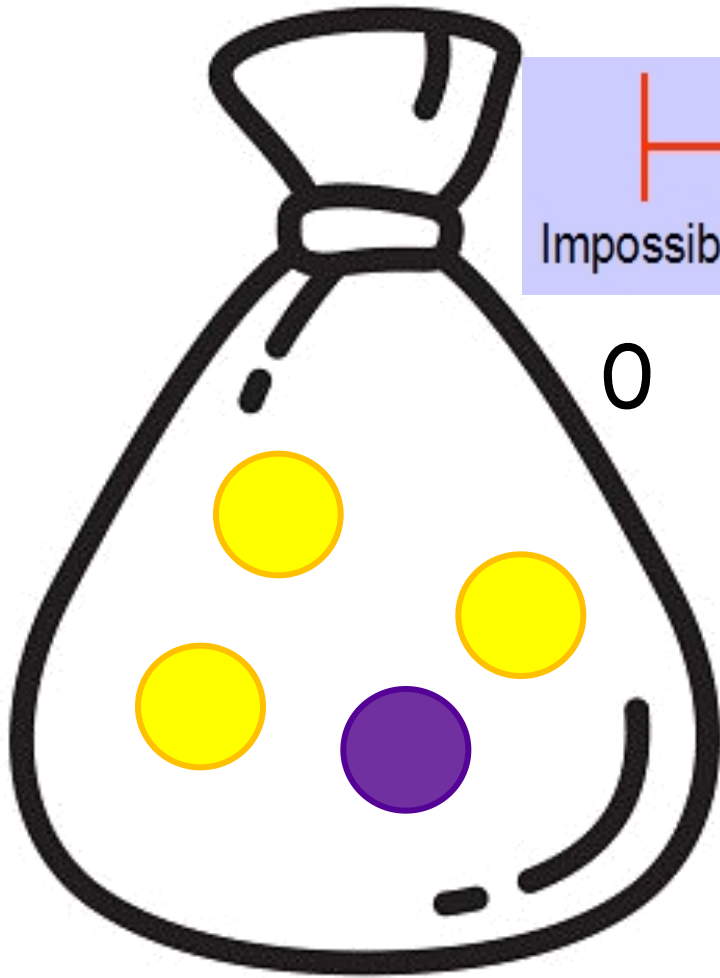
Imagine a marble is taken from the bag without looking.

What is the probability that the purple marble is chosen?

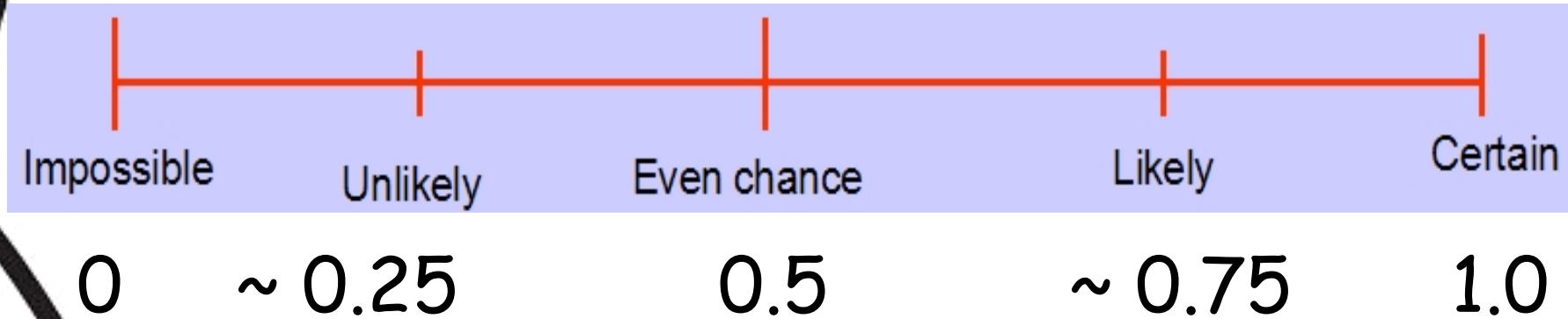
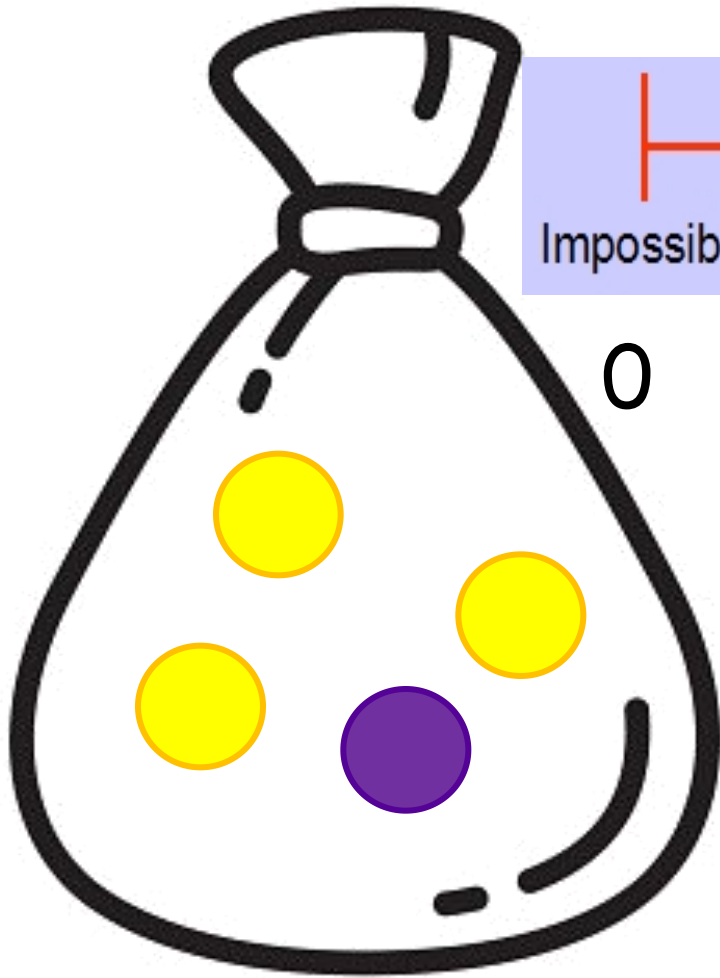
Give your answer as a **decimal**.



Probability written as decimals



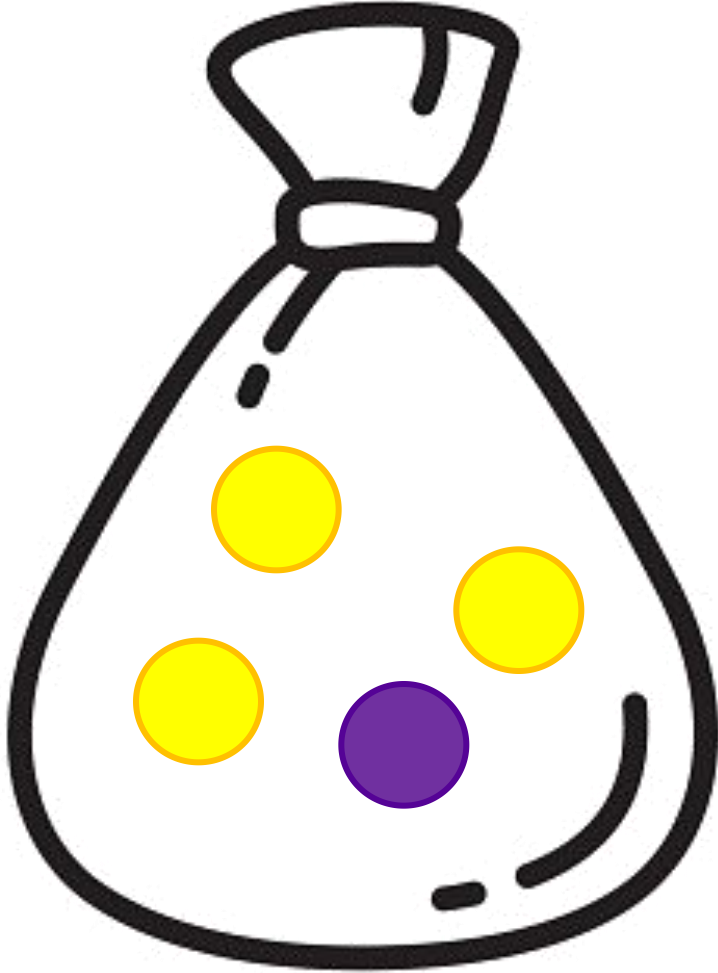
Probability written as decimals



0.25



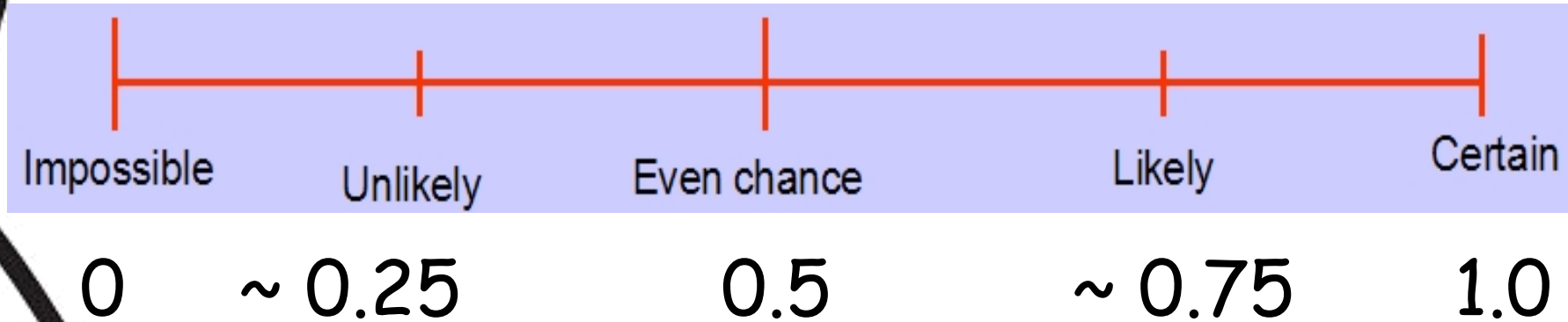
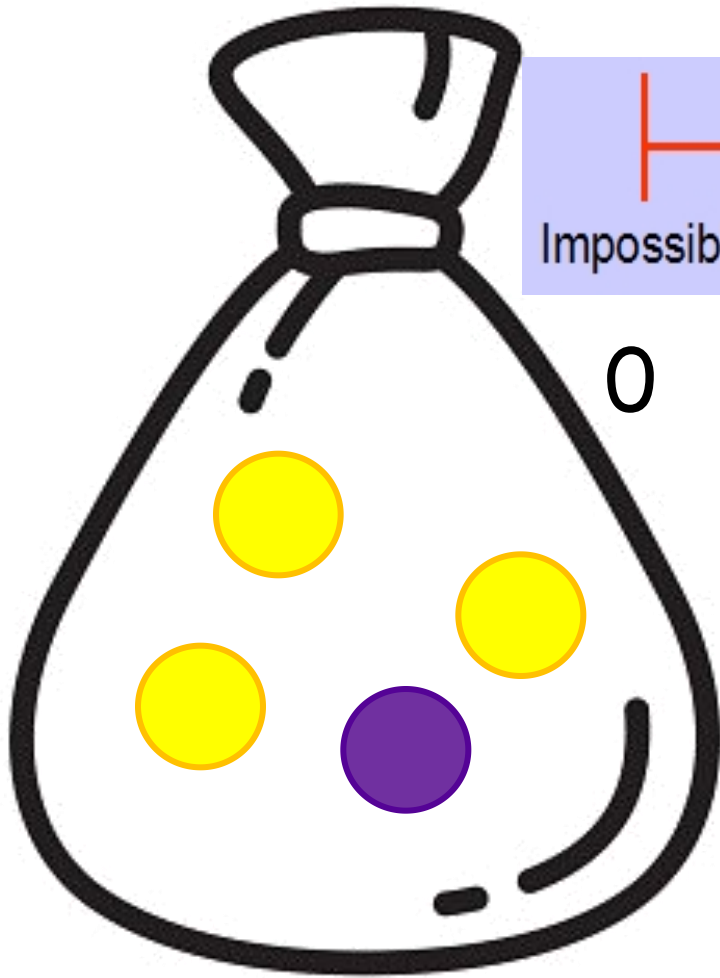
Probability written as decimals



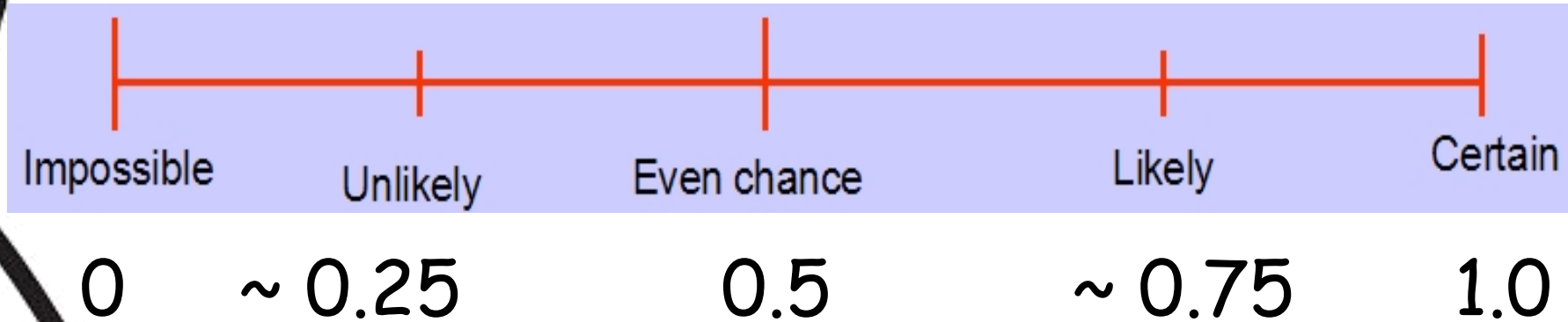
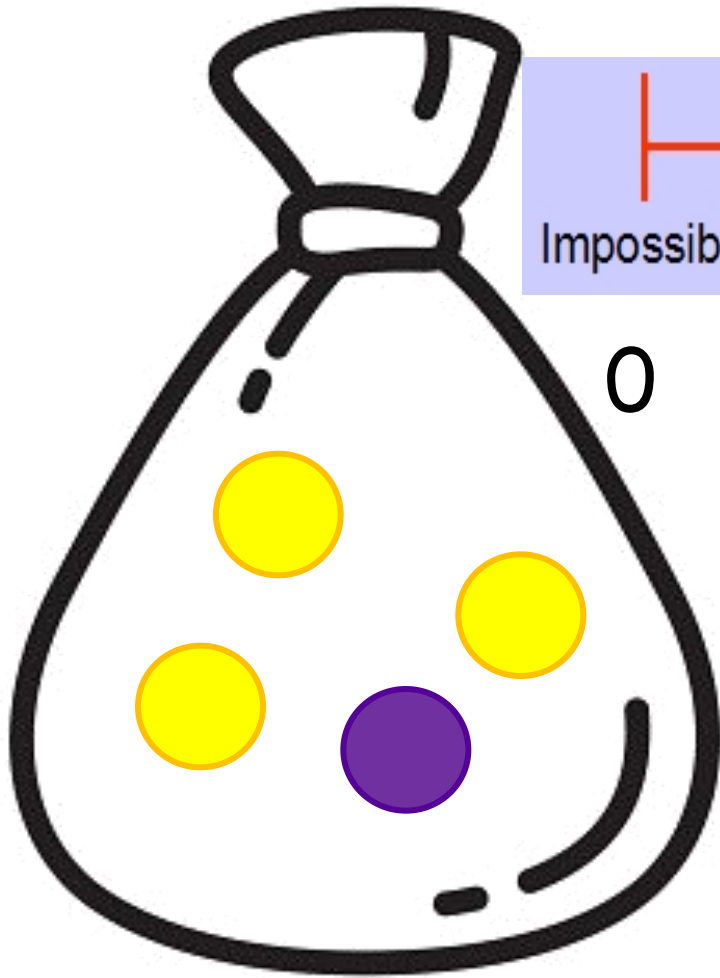
What is the probability that a yellow marble is chosen?

Give your answer as a **decimal**.

Probability written as decimals



Probability written as decimals



0.75

Probability written as decimals



There are twelve different colours on a spinning wheel.

- two yellow
- two orange
- one red
- one pink
- one purple
- three blue
- and two green.

Probability written as decimals

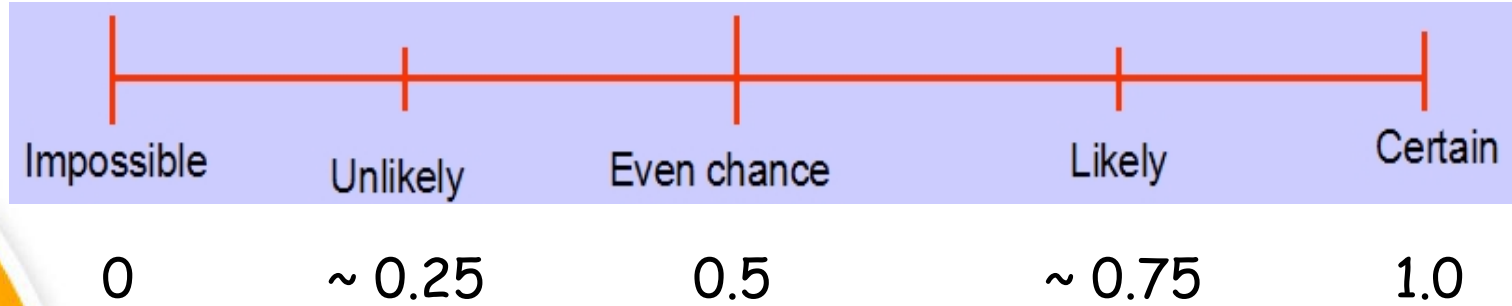
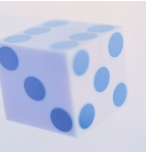


What is the probability that the spinning wheel will land on one of the blue colours?

Give your answer as a decimal.

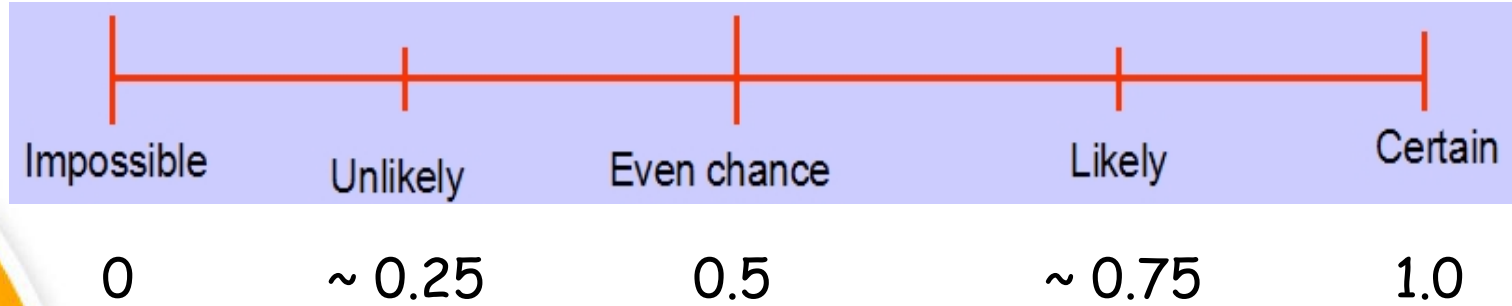
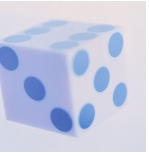


Probability written as decimals



$$3 \div 12 =$$

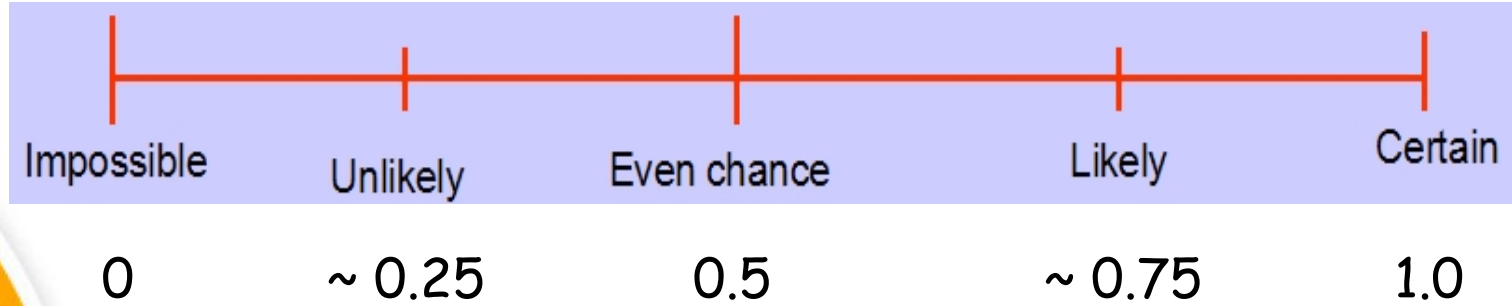
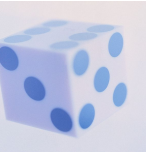
Probability written as decimals



$$3 \div 12 = 0.25$$



Probability written as decimals



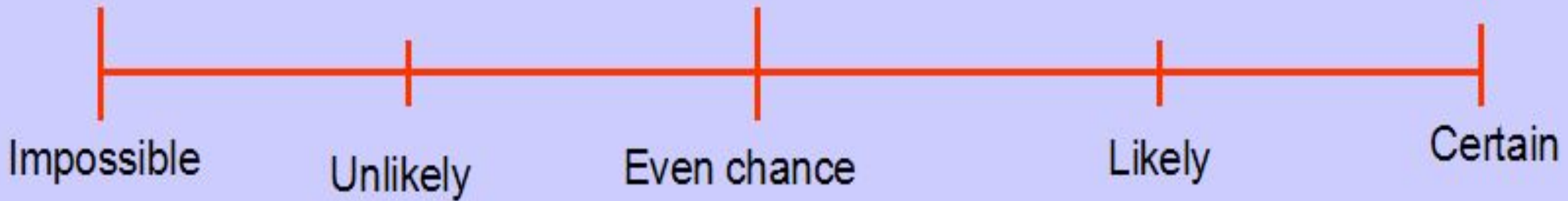
$$3 \div 12 = 0.25$$

unlikely





Probability written as fractions



0

$\sim \frac{1}{4}$

$\frac{1}{2}$

$\sim \frac{3}{4}$

1





Probability written as fractions



How many number sides does the dice have?

What is the probability of it landing on number 5? Write your answer as a **fraction**.

Probability written as fractions



How many number sides does the dice have?

6

What is the probability of it landing on number 5? Write your answer as a **fraction**.

Probability written as fractions



How many number sides does the dice have?

6

What is the probability of it landing on number 5? Write your answer as a **fraction**.

$$\frac{1}{6}$$



Probability written as fractions



How many number sides does the dice have?

6

What is the probability of it landing on an even number? Write your answer as a fraction.

Probability written as fractions



How many number sides does the dice have?

6

What is the probability of it landing on an even number? Write your answer as a fraction.

$$\frac{3}{6}$$



Probability written as fractions



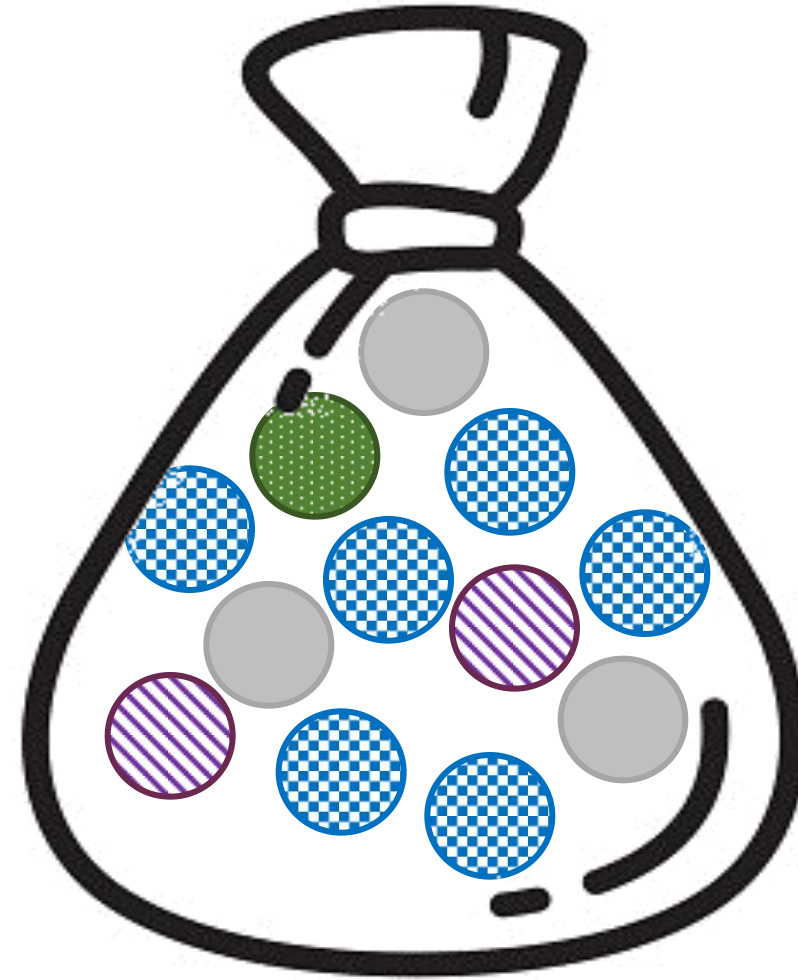
How many number sides does the dice have?

6

What is the probability of it landing on an even number? Write your answer as a fraction.

$$\frac{3}{6} = \frac{1}{2} = \text{even chance}$$

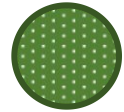
Probability written as fractions



Key



Striped



Spotty



Checkered



Grey

Here is another bag of marbles.

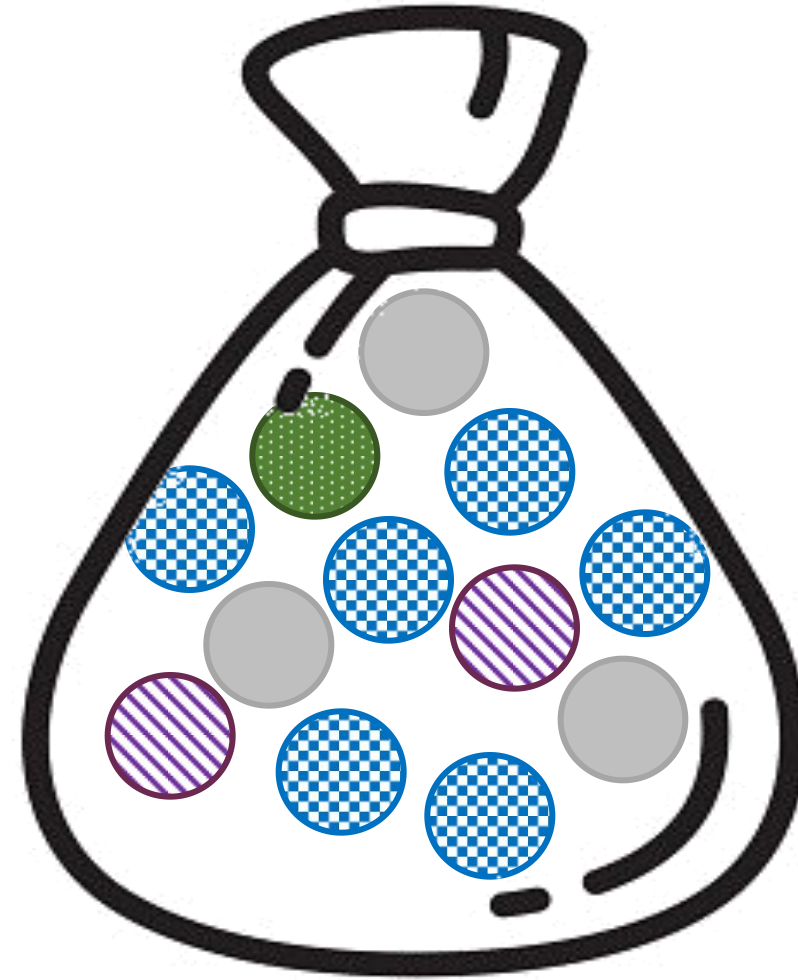
It contains 4 different types of marbles.


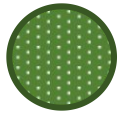


Again, imagine a marble is taken from the bag without looking.

What is the probability that a checkered marble is chosen?

Give your answer as a **fraction**.

Probability written as fractions



Key	
	Striped
	Spotty
	Checkered
	Grey

What is the probability that a checkered marble is chosen?

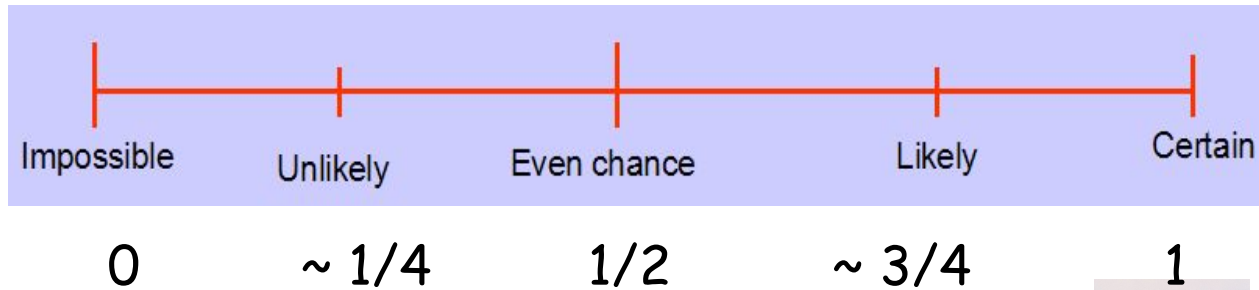
There are 12 marbles:

2 striped marbles

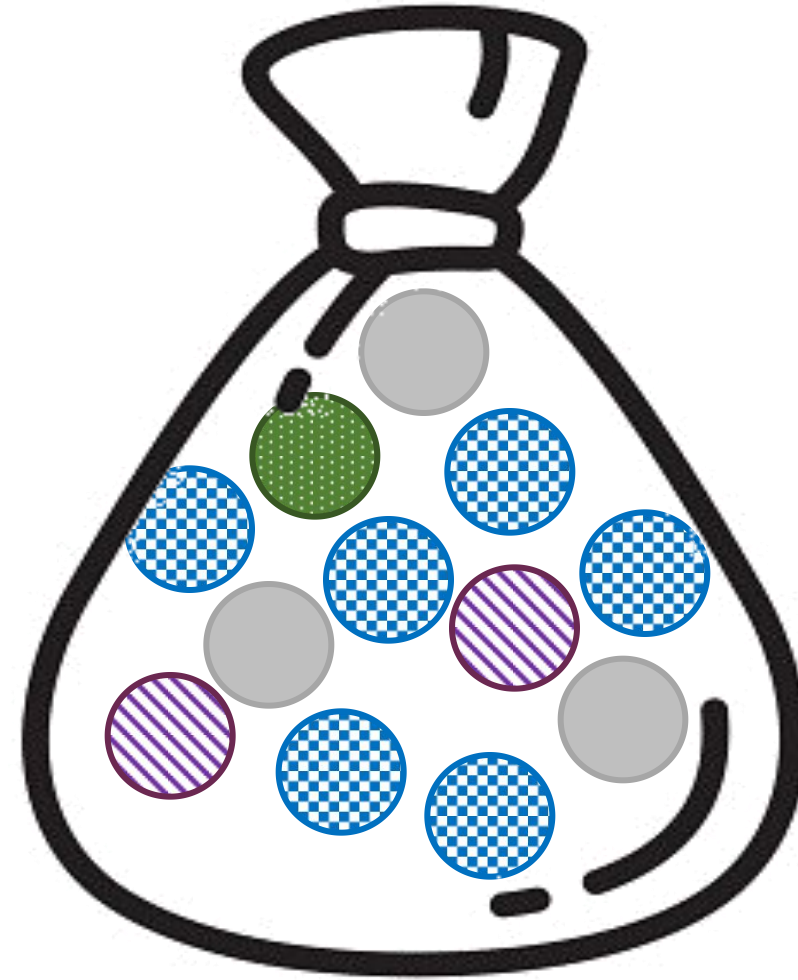
1 spotty marble


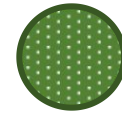


6 checkered marbles

3 grey marbles



Probability written as fractions



Key	
	Striped
	Spotty
	Checkered
	Grey

There are 12 marbles:

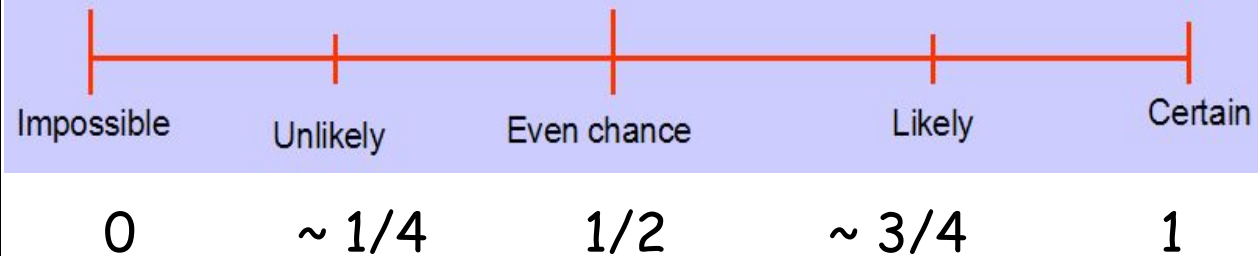
2 striped

1 spotty

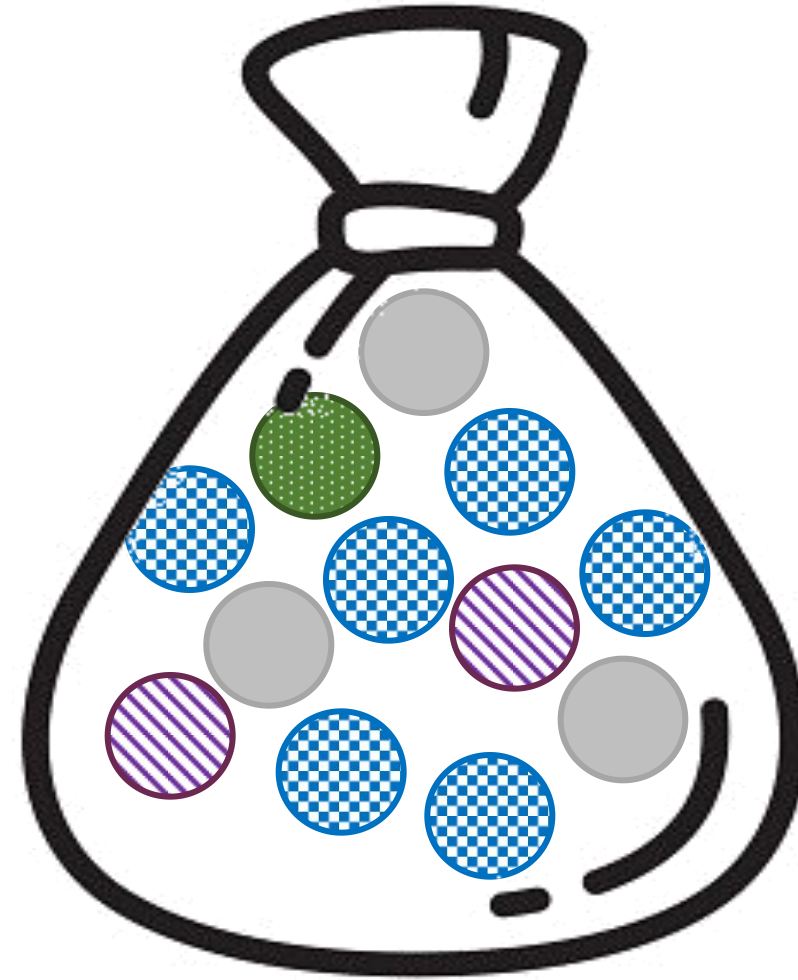
6 checkered


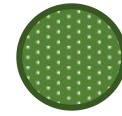


3 grey

12



Probability written as fractions



Key	
	Striped
	Spotty
	Checkered
	Grey

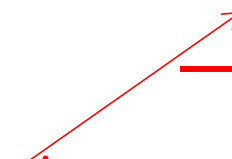
There are 12 marbles:

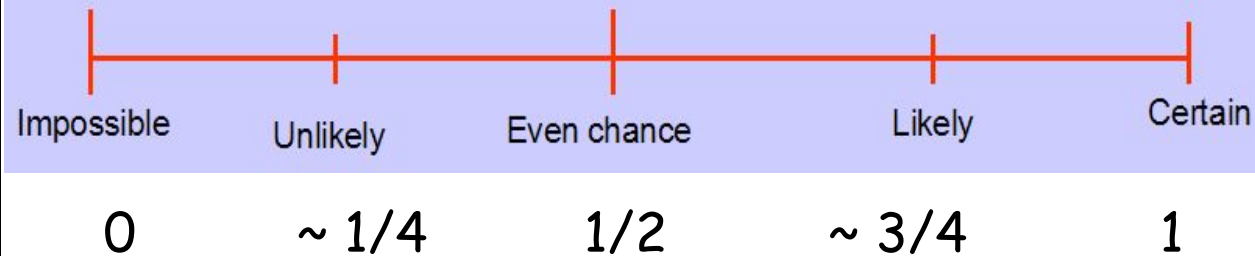
2 striped

1 spotty

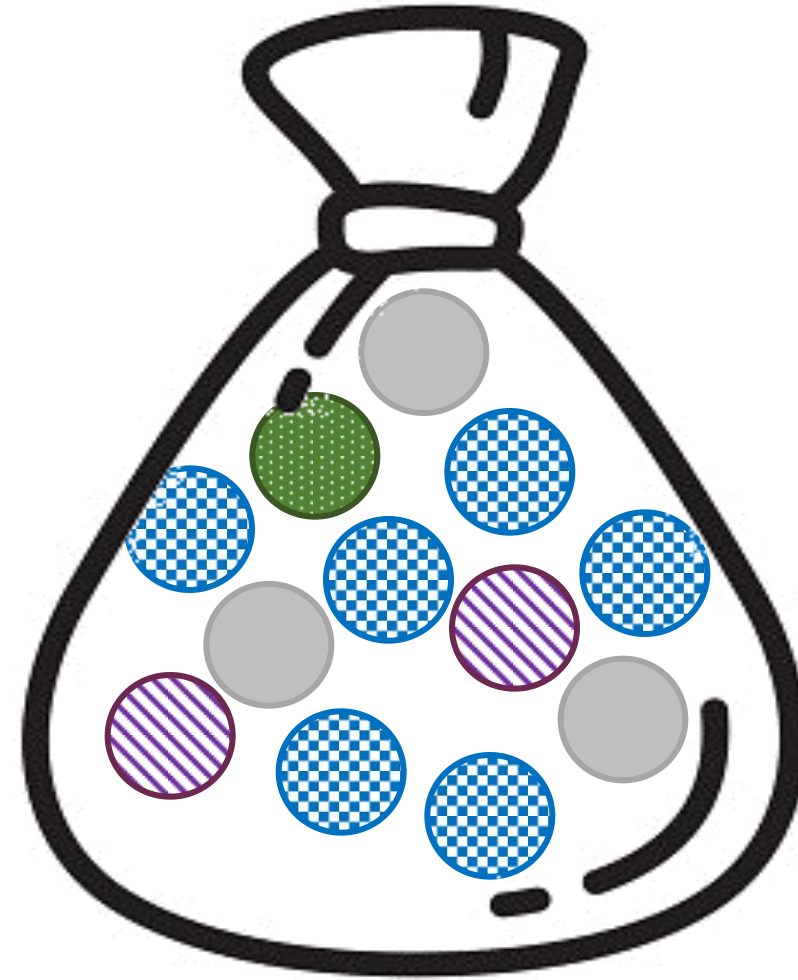
6 checkered


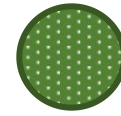


3 grey

$$\frac{6}{12}$$




Probability written as fractions



Key	
	Striped
	Spotty
	Checkered
	Grey

There are 12 marbles:

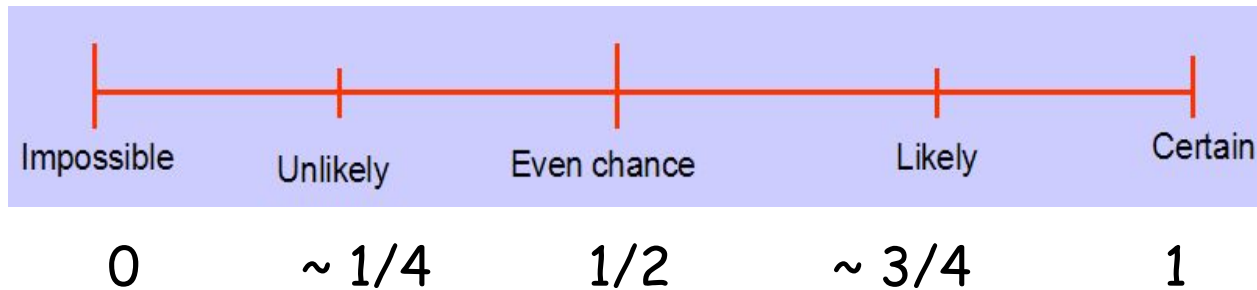
2 striped

1 spotty

6 checkered

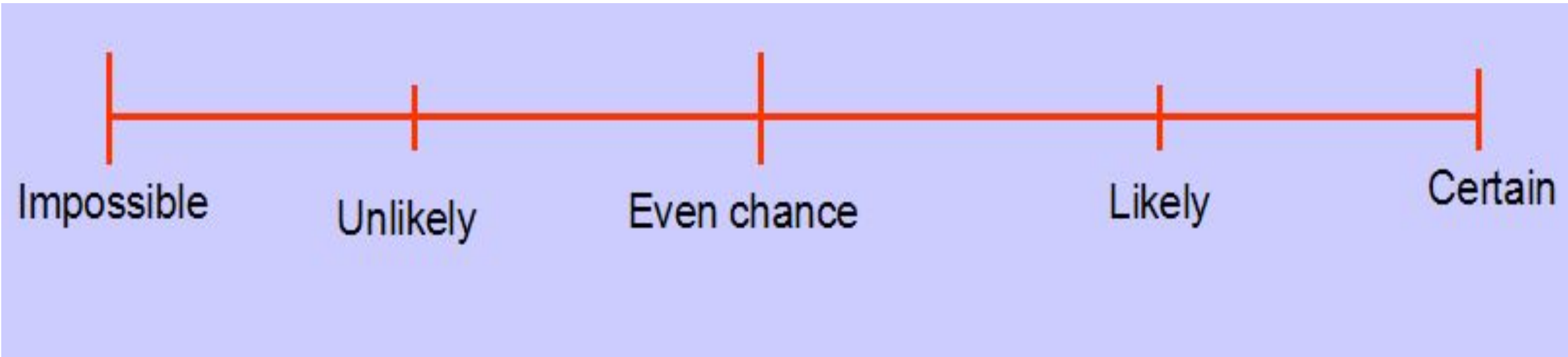
3 grey

$$\frac{6}{12} = \frac{1}{2}$$





Probability written as percentages



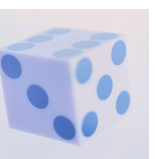
0%

~ 25%

50%

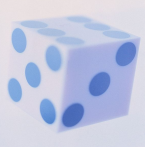
~ 75%

100%

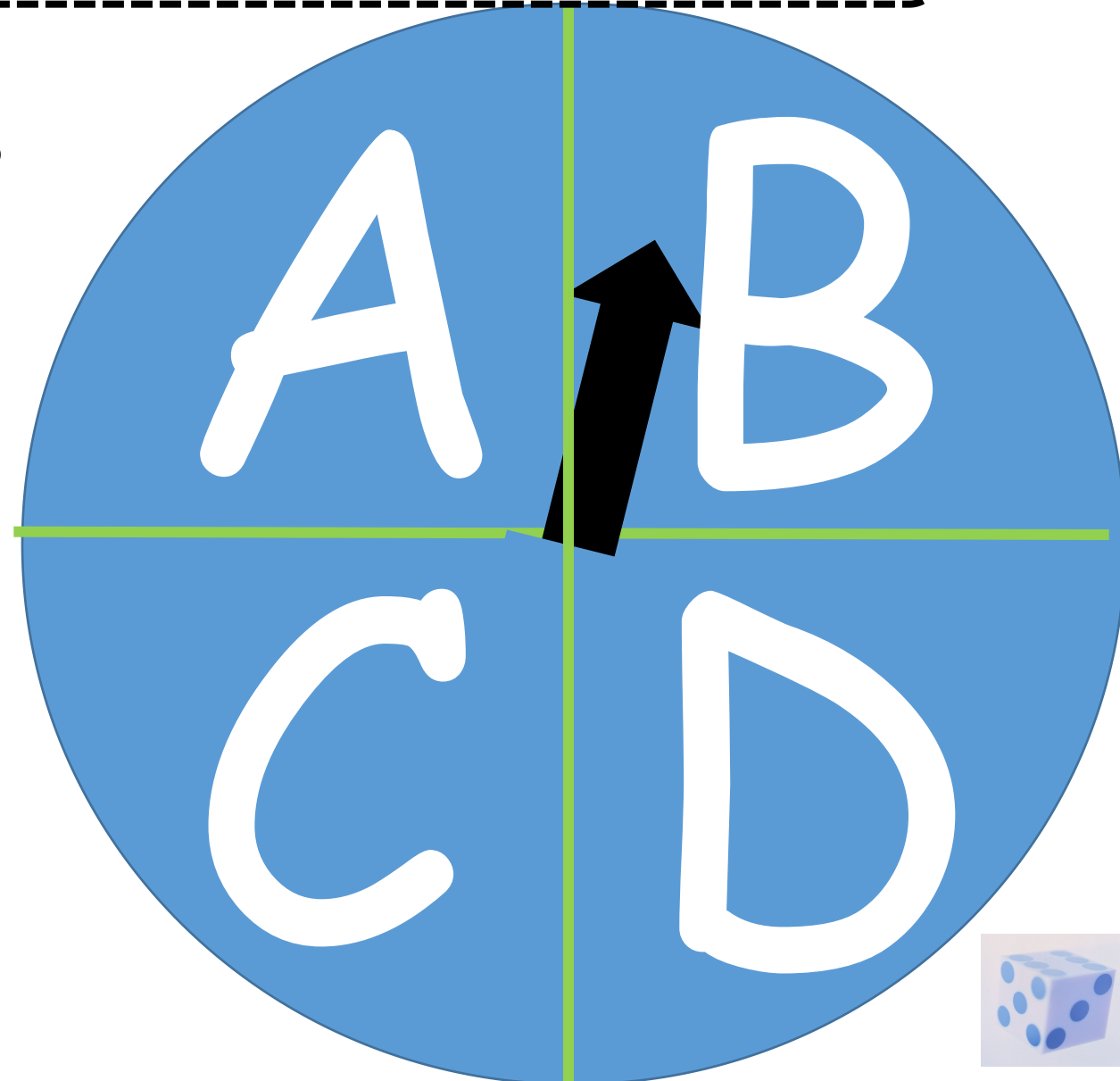
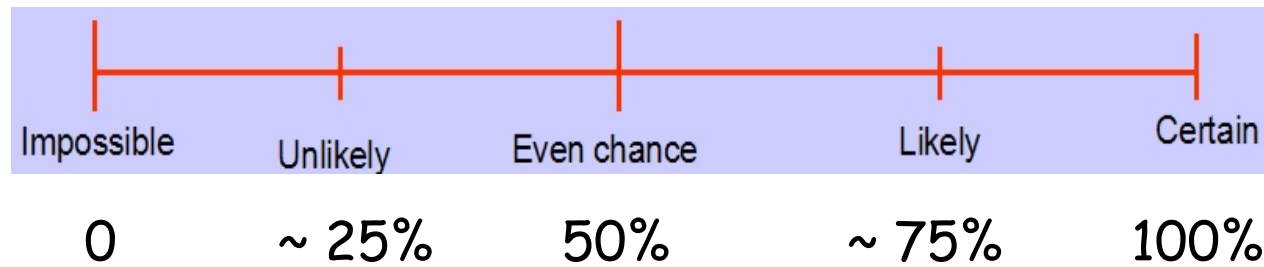


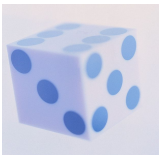


Probability written as percentages

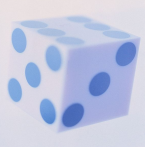


What is the probability that the spinner will stop on part A?
Write your answer as percentage

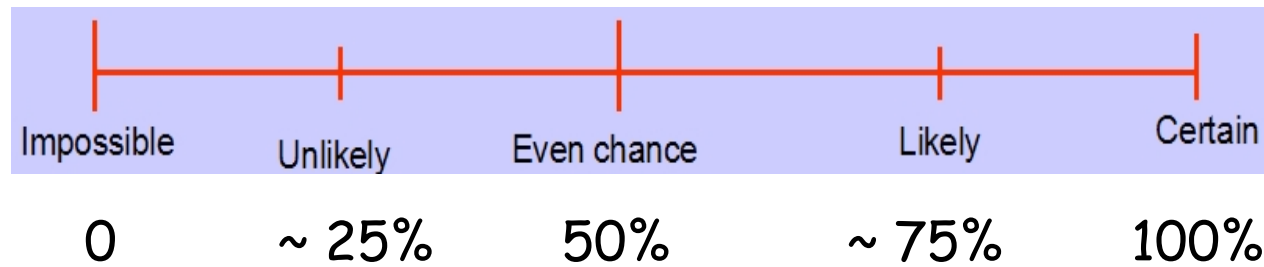




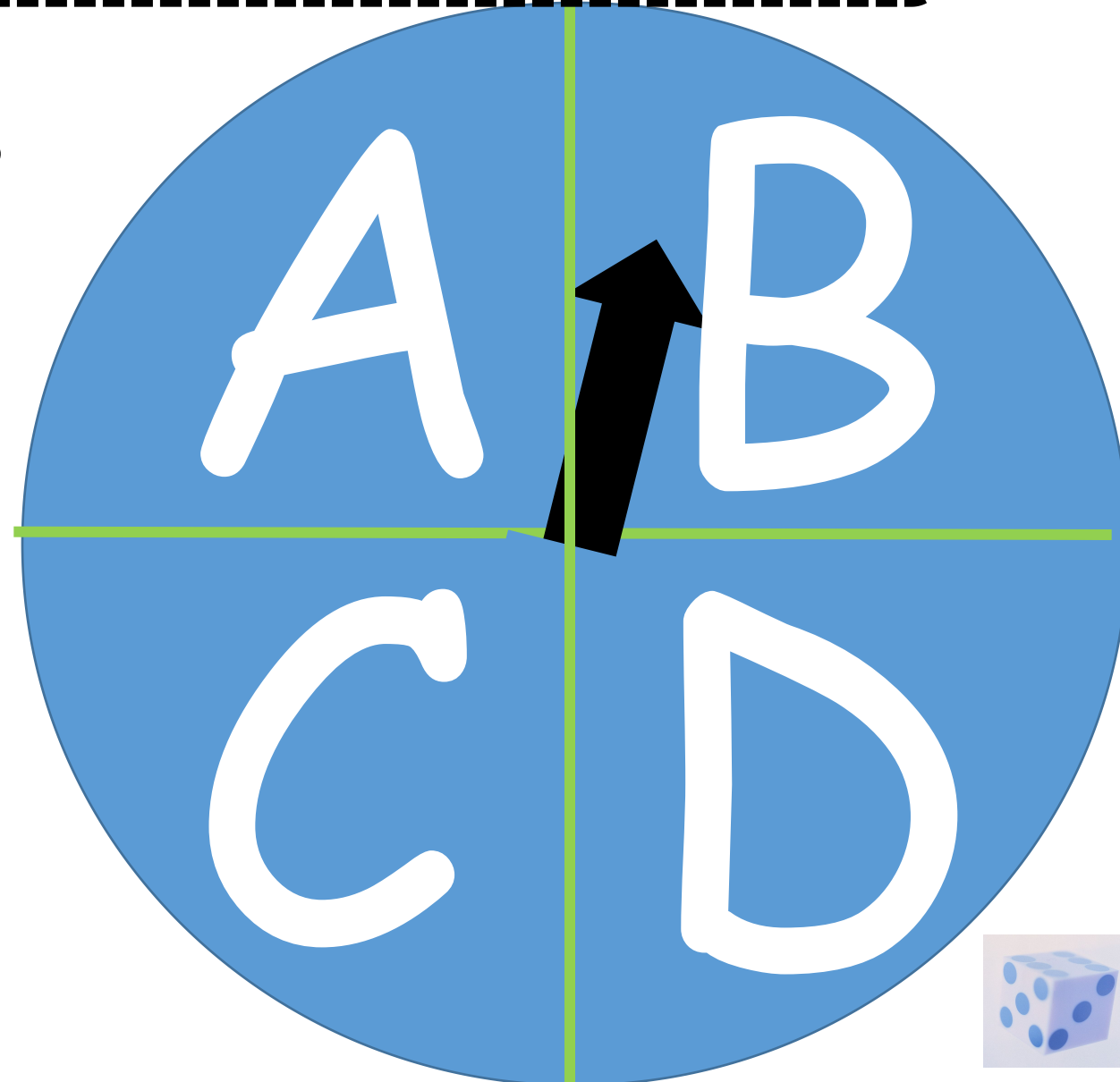
Probability written as percentages

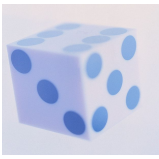


What is the probability that the spinner will stop on part A?
Write your answer as percentage

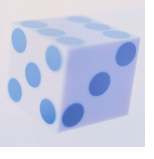


25%

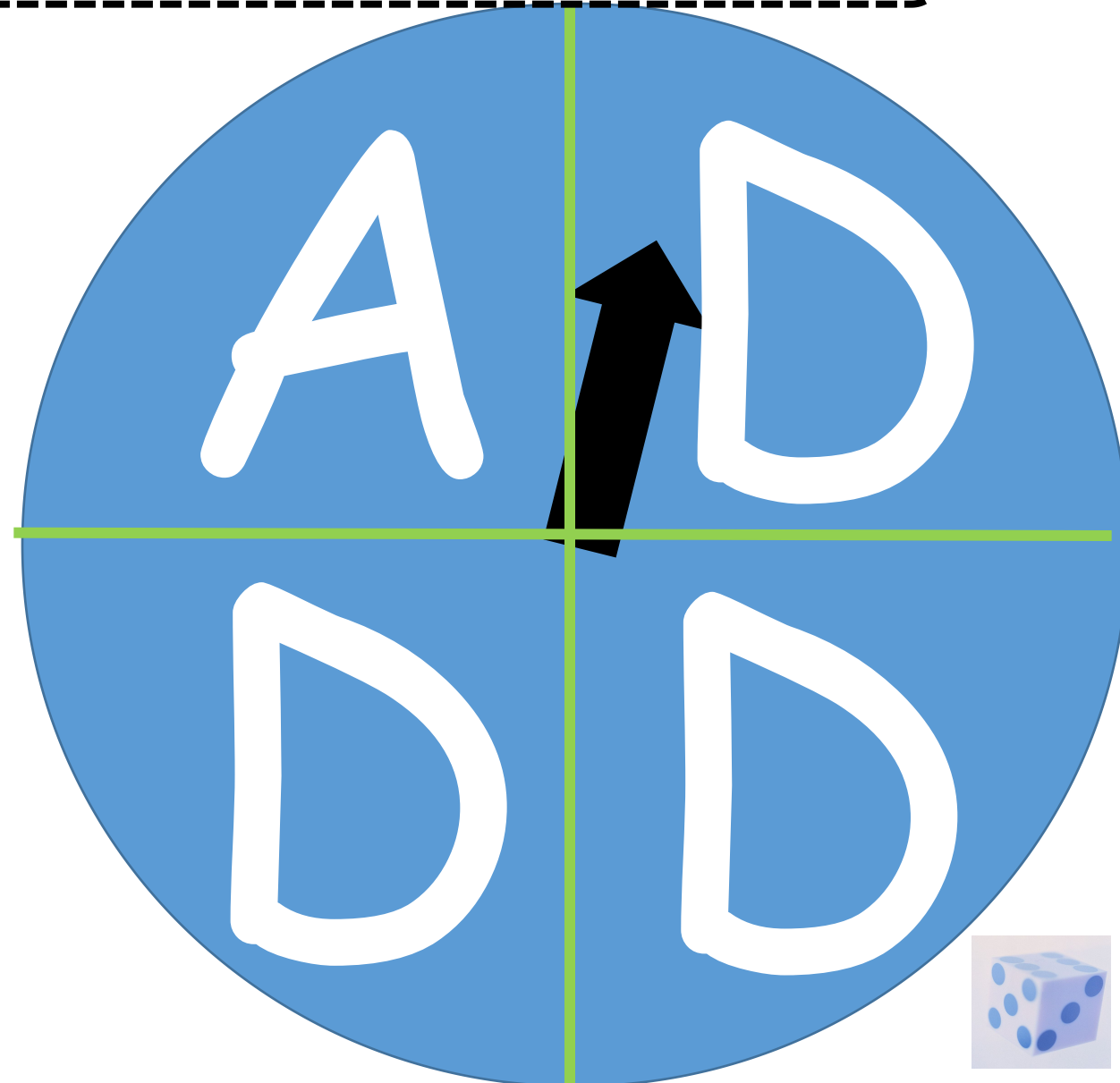
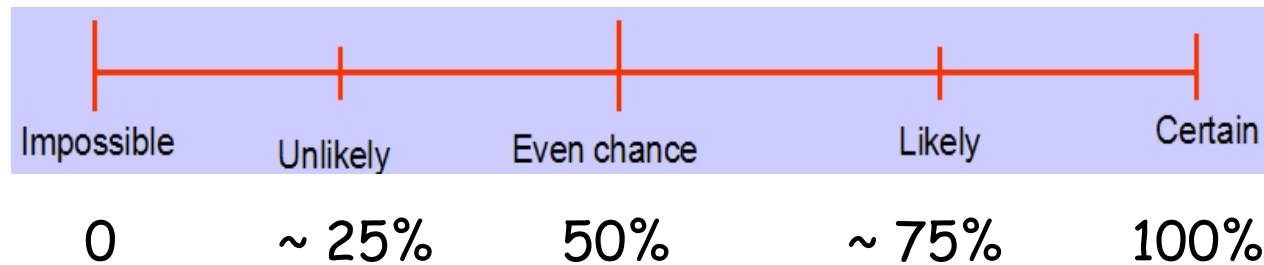


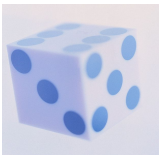


Probability written as percentages



What is the probability that the spinner will stop on letter D? Write your answer as percentage

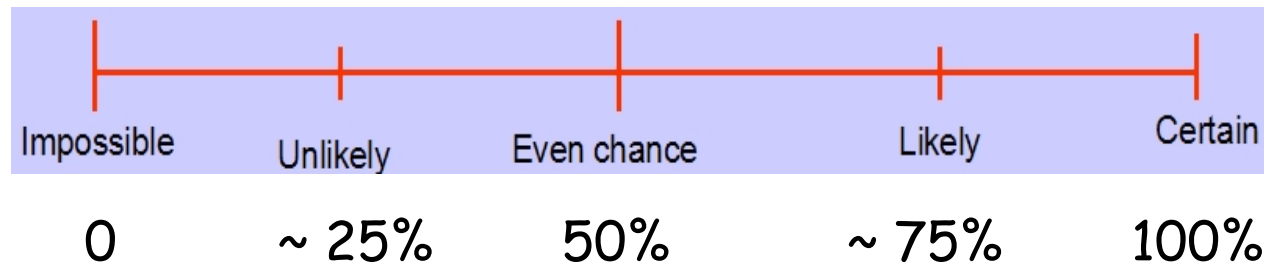




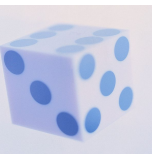
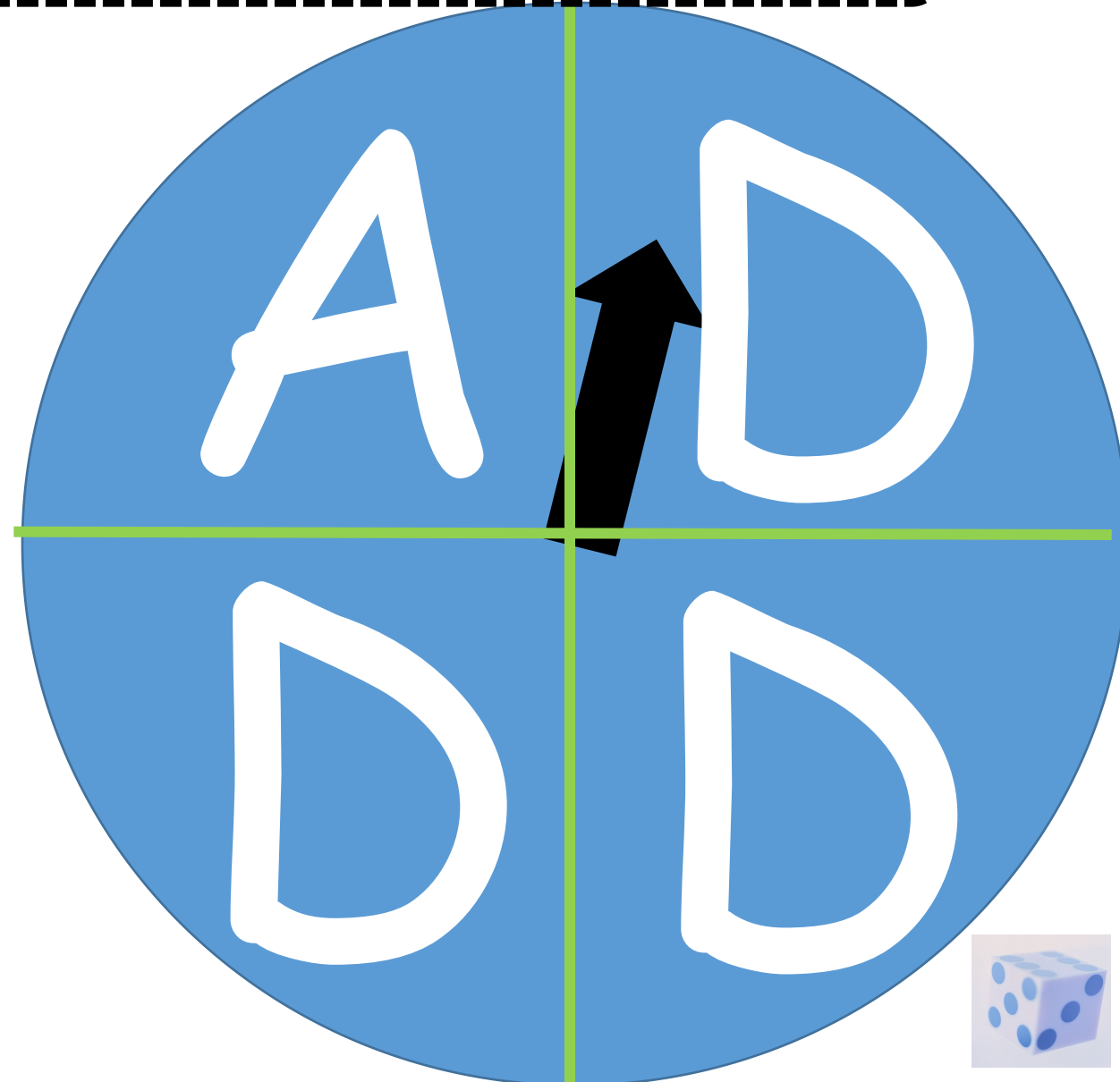
Probability written as percentages

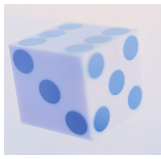


What is the probability that the spinner will stop on letter D? Write your answer as percentage

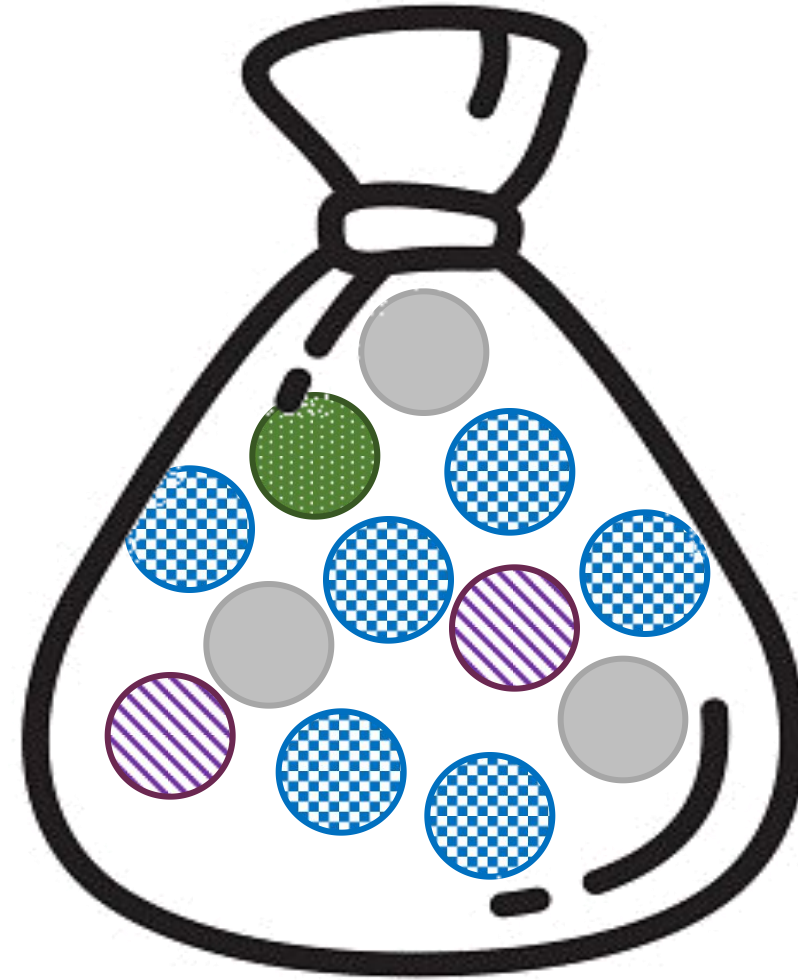



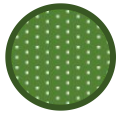


75%





Probability written as percentages



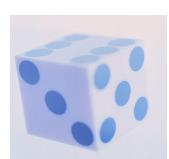
Key	
	Striped
	Spotty
	Checkered
	Grey

Here is the same bag with 4 different types of marbles.

For the final time, imagine a marble is taken from the bag without looking.

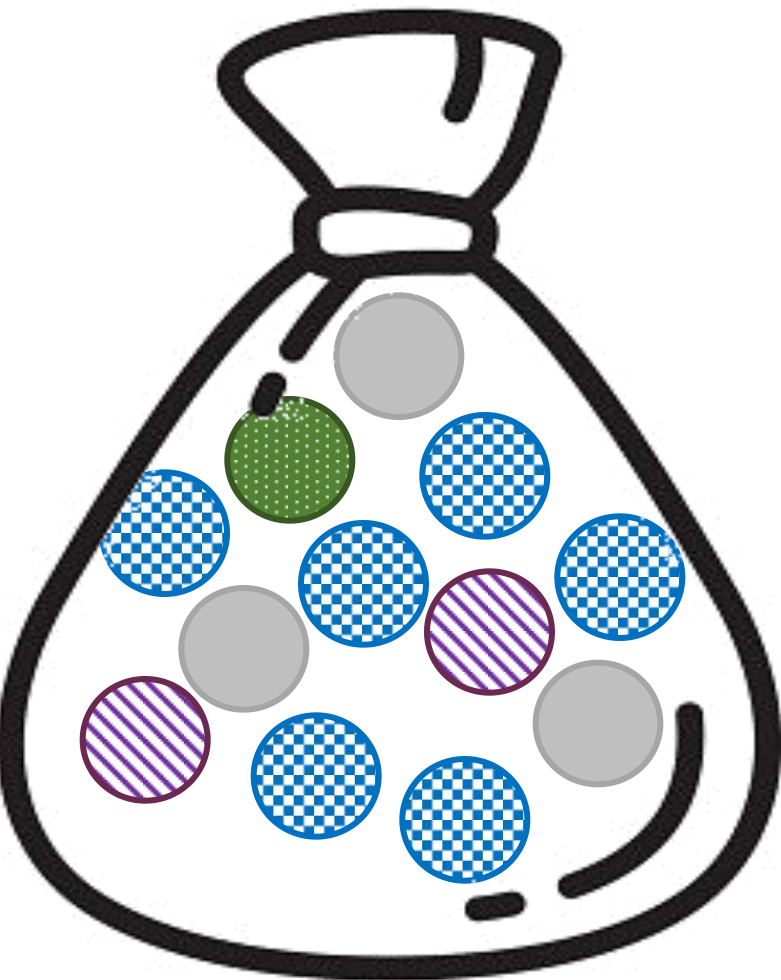
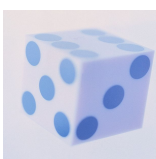
What is the probability that a grey marble is chosen?


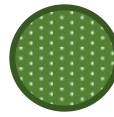


Give your answer as a **percentage**.





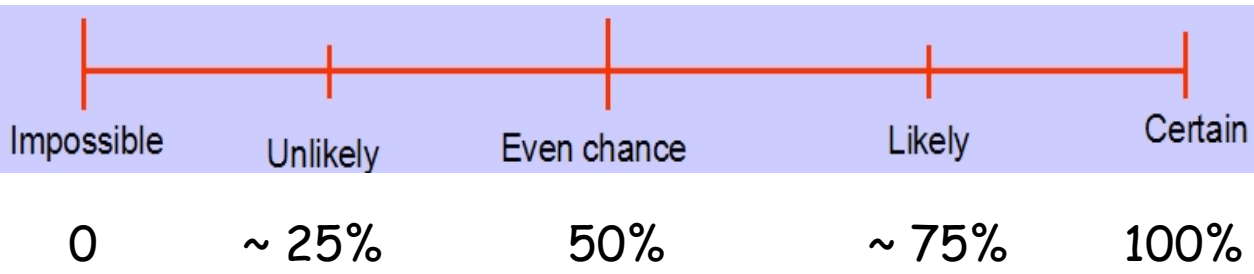
Probability written as percentages



Key	
	Striped
	Spotty
	Checkered
	Grey

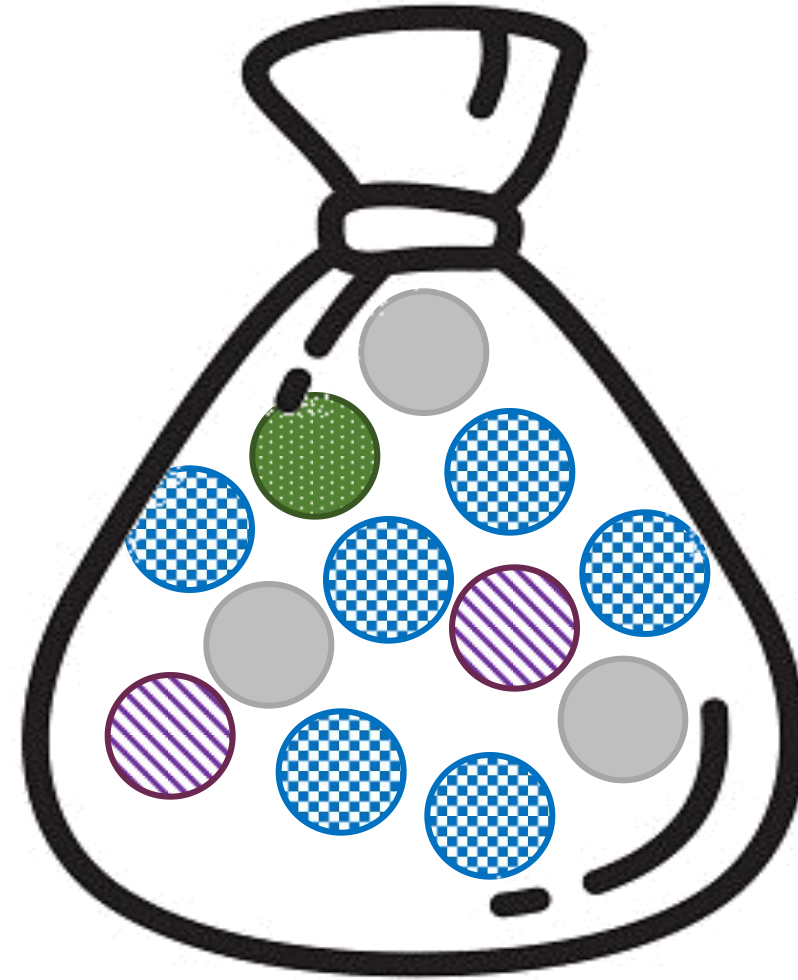
What is the probability that a grey marble is chosen?


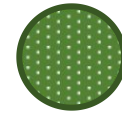


12 marbles
3 grey marbles





Probability written as percentages

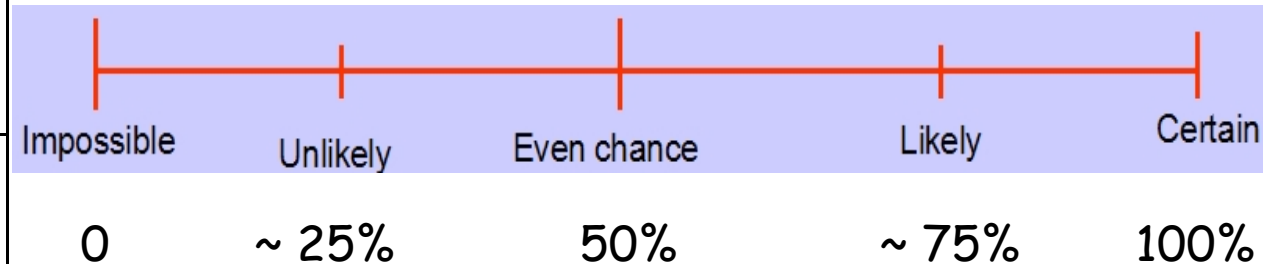


Key	
	Striped
	Spotty
	Checkered
	Grey

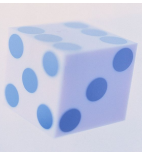
What is the probability that a grey marble is chosen?

12 marbles

3 grey marbles



25% - unlikely



Excellent! Now let's review the lesson.

REVIEW

Ready?



What is probability?

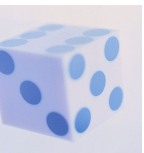


A. Probability is about if something will happen in the past.

B. Probability is about if something will happen in the future.

C. Probability is about time.

D. It is a **chance** that something **won't** happen.





What is probability?

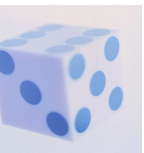


A. Probability is about if something will happen in the past.

B. Probability is about if something will happen in the future.

C. Probability is about time.

D. It is a chance that something won't happen.





Probability



There are twelve jellybeans in a jar. 7 are orange, 1 is yellow and 4 are green.





Probability



There are twelve jellybeans in a jar. 7 are orange, 1 is yellow and 4 are green.

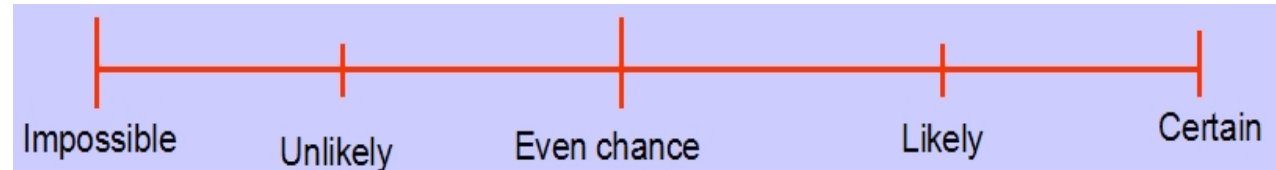
What is the probability of picking an orange jellybean?

Probability



There are twelve jellybeans in a jar. 7 are orange, 1 is yellow and 4 are green.

What is the probability of picking an orange jellybean?



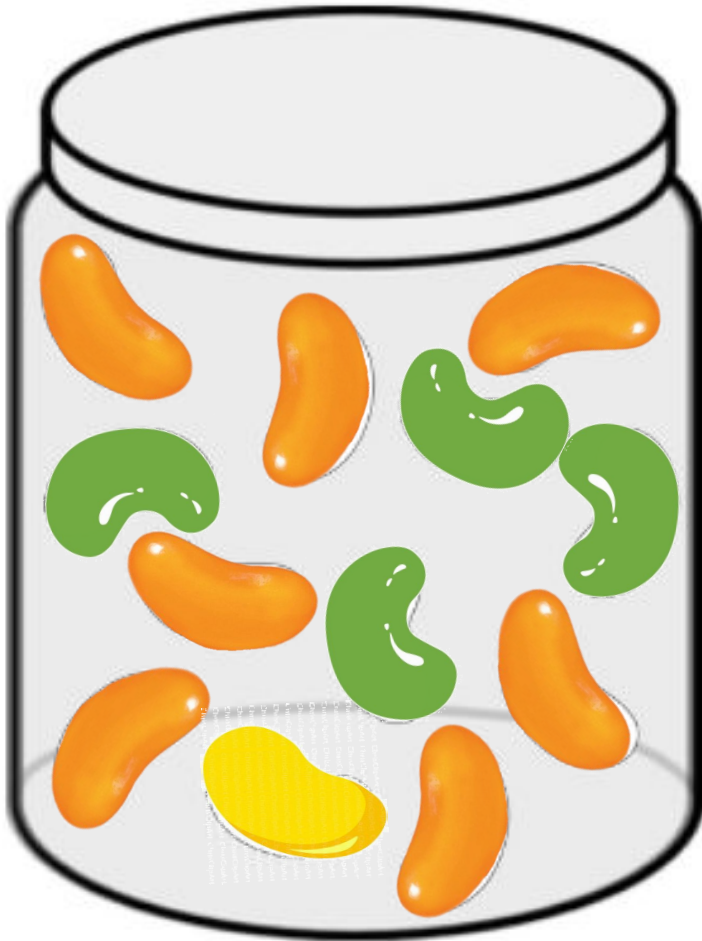
A. Impossible

B. Certain

C. Likely

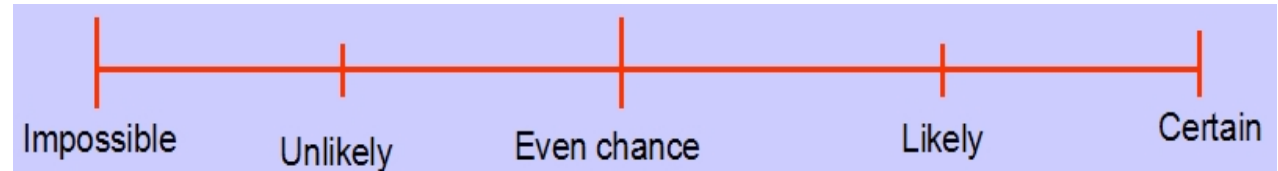
D. Even chance

Probability



There are twelve jellybeans in a jar. 7 are orange, 1 is yellow and 4 are green.

What is the probability of picking an orange jellybean?



A. Impossible

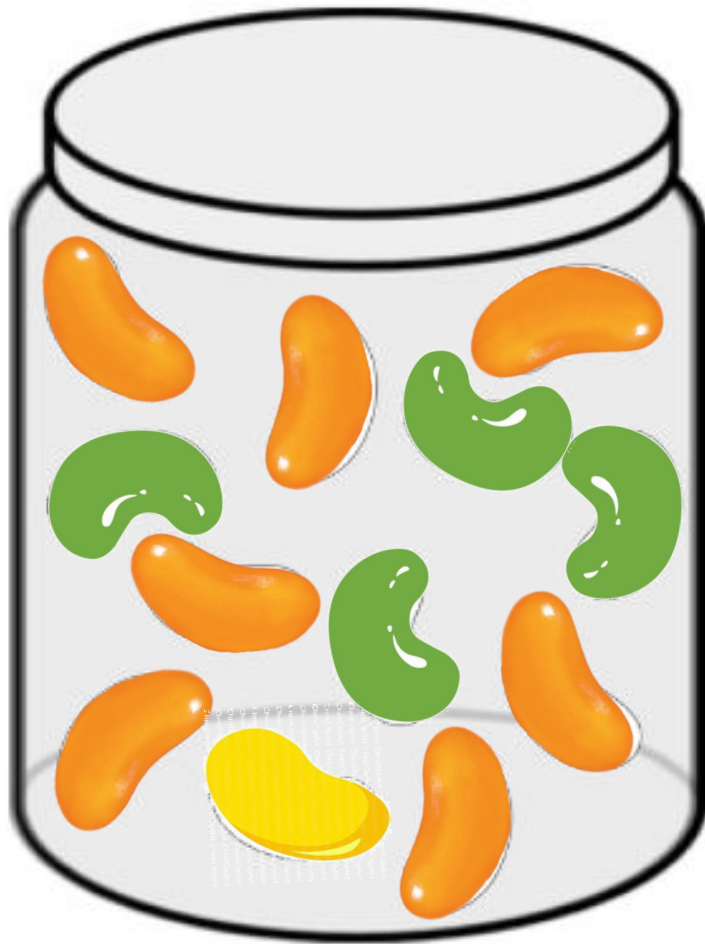
B. Certain

C. Likely

D. Even chance



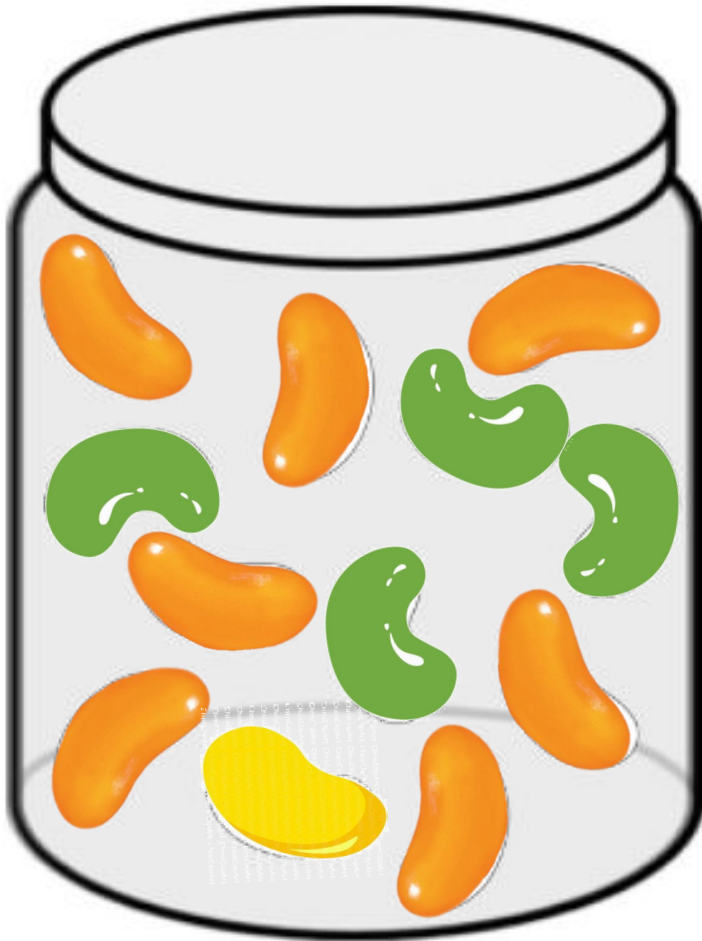
Probability



There are twelve jellybeans in a jar. 7 are orange, 1 is yellow and 4 are green.

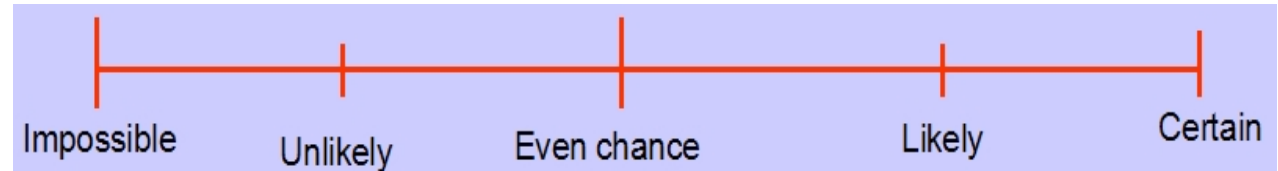
What is the probability of picking a yellow jellybean?

Probability



There are twelve jellybeans in a jar. 7 are orange, 1 is yellow and 4 are green.

What is the probability of picking a yellow jellybean?



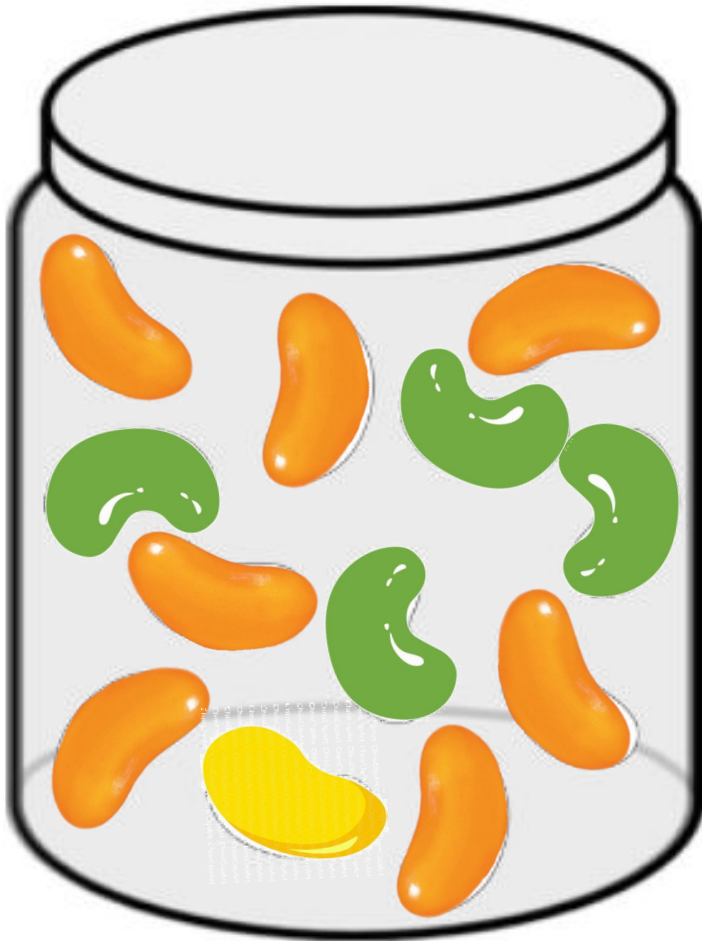
A. Even chance

B. Certain

C. Likely

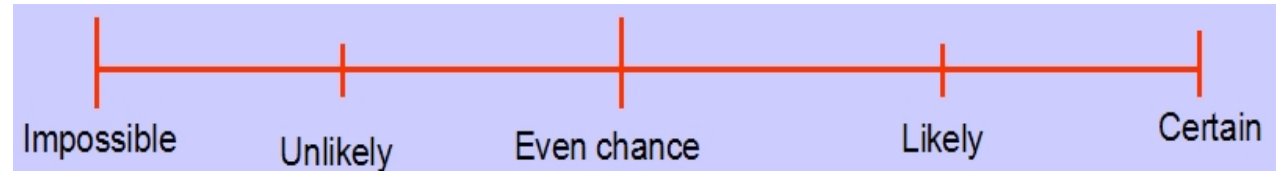
D. Unlikely

Probability



There are twelve jellybeans in a jar. 7 are orange, 1 is yellow and 4 are green.

What is the probability of picking a yellow jellybean?



A. Even chance

B. Certain

C. Likely

D. Unlikely



Probability written as decimals



There are twenty cookies in a jar. 10 are chocolate chip, 5 are vanilla, 3 are strawberry and two are chocolate flavour.





Probability written as decimals



There are twenty cookies in a jar. 10 are chocolate chip, 5 are vanilla, 3 are strawberry and two are chocolate flavour.

What is the probability of choosing a chocolate chip cookie?

A. 0

B. 0.75

C. 0.5

D. 0.25





Probability written as decimals



There are twenty cookies in a jar. 10 are chocolate chip, 5 are vanilla, 3 are strawberry and two are chocolate flavour.

What is the probability of choosing a chocolate chip cookie?

A. 0

B. 0.75

C. 0.5

D. 0.25





Probability written as decimals



There are twenty cookies in a jar. 10 are chocolate chip, 5 are vanilla, 3 are strawberry and two are chocolate flavour.

What is the probability of choosing a vanilla cookie?

A. 0.5

B. 0.5

C. 0.75

D. 0.25





Probability written as decimals



There are twenty cookies in a jar. 10 are chocolate chip, 5 are vanilla, 3 are strawberry and two are chocolate flavour.

What is the probability of choosing a vanilla cookie?

A. 0.5

B. 0.5

C. 0.75

D. 0.25





Probability written as fractions



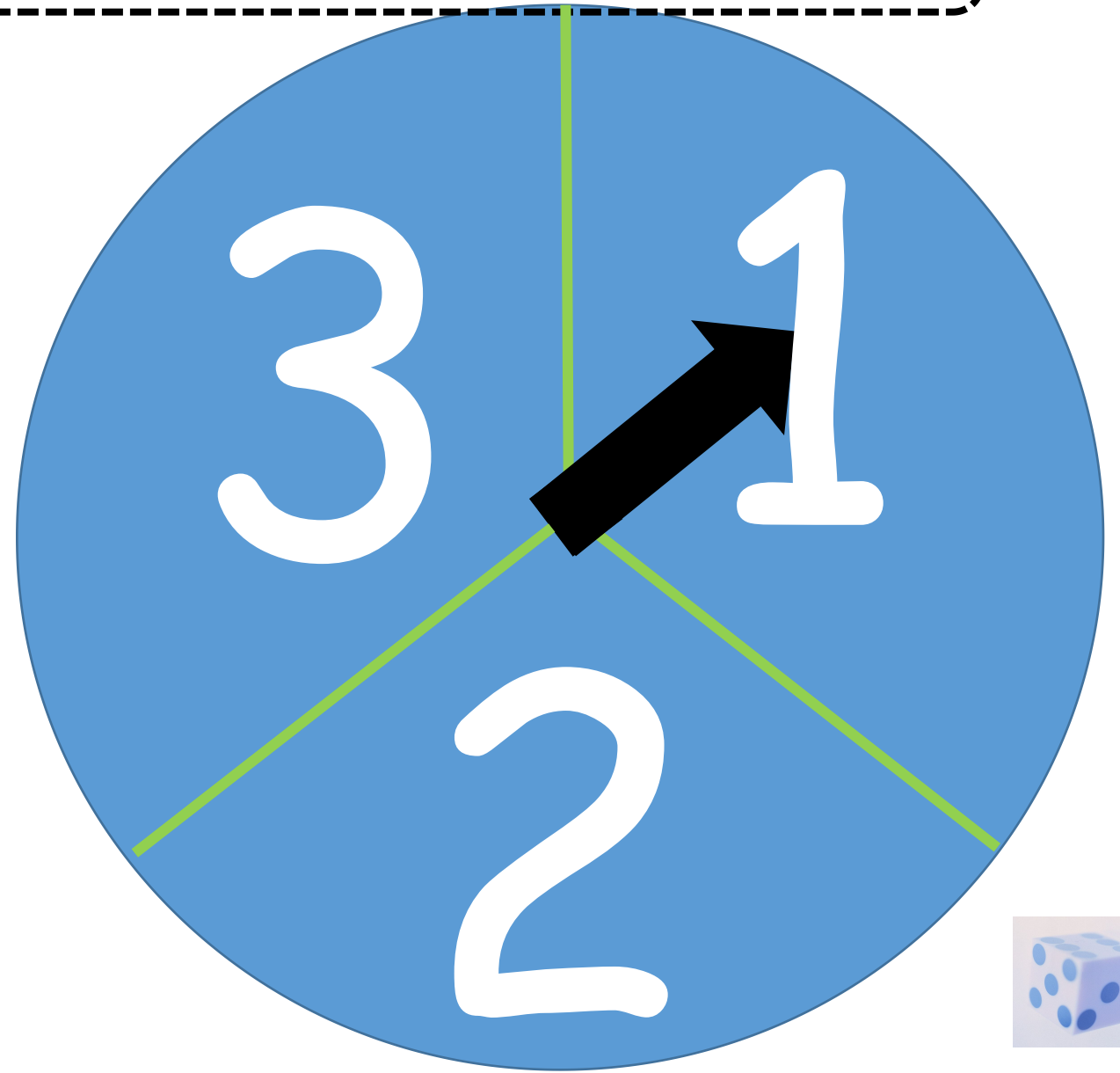
What is the probability that the spinner will stop on an even number?

A. $\frac{1}{3}$

B. $\frac{2}{3}$

C. $\frac{3}{4}$

D. $\frac{1}{2}$





Probability written as fractions



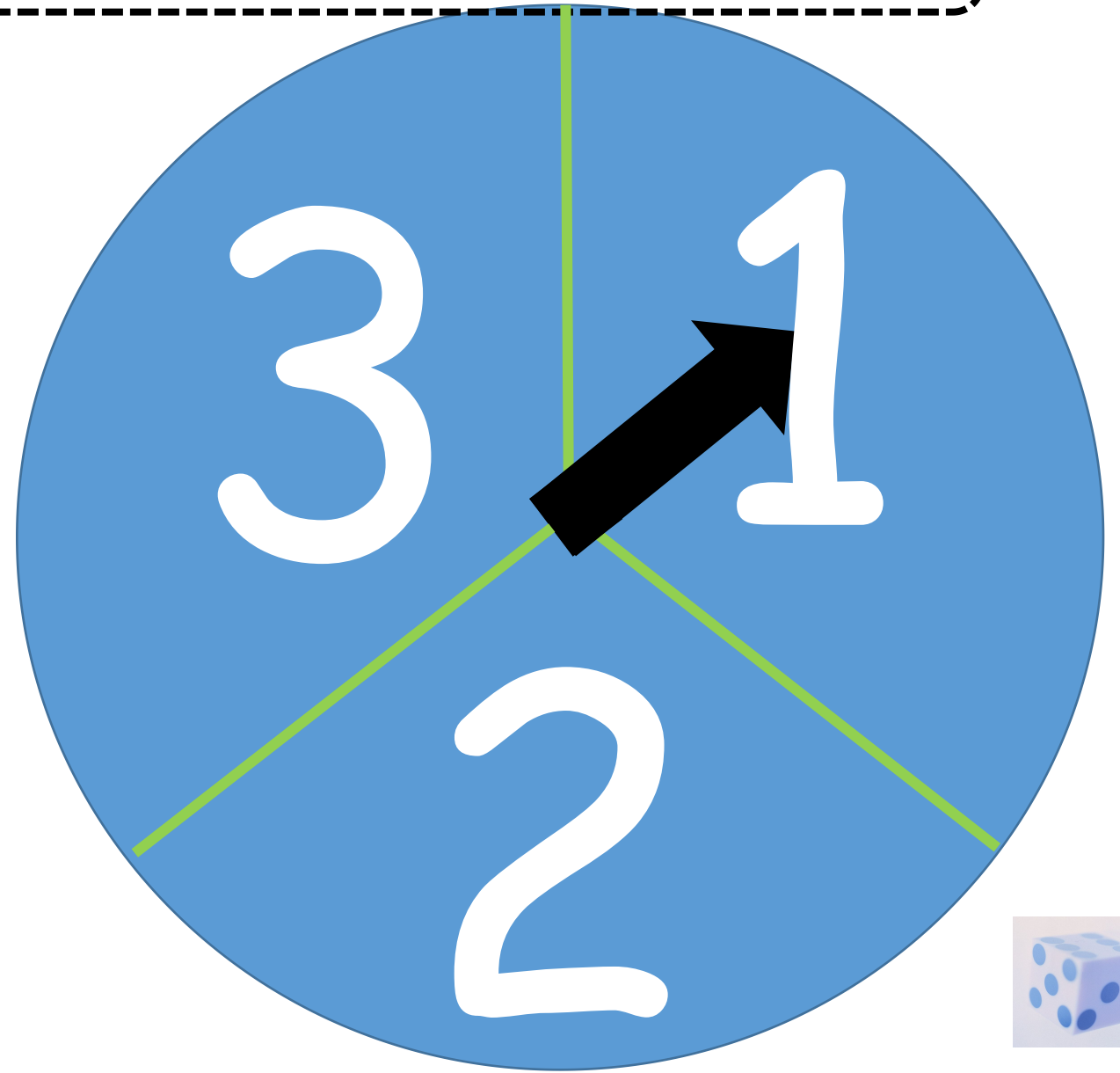
What is the probability that the spinner will stop on an even number?

A. $\frac{1}{3}$

B. $\frac{2}{3}$

C. $\frac{3}{4}$

D. $\frac{1}{2}$





Probability written as fractions



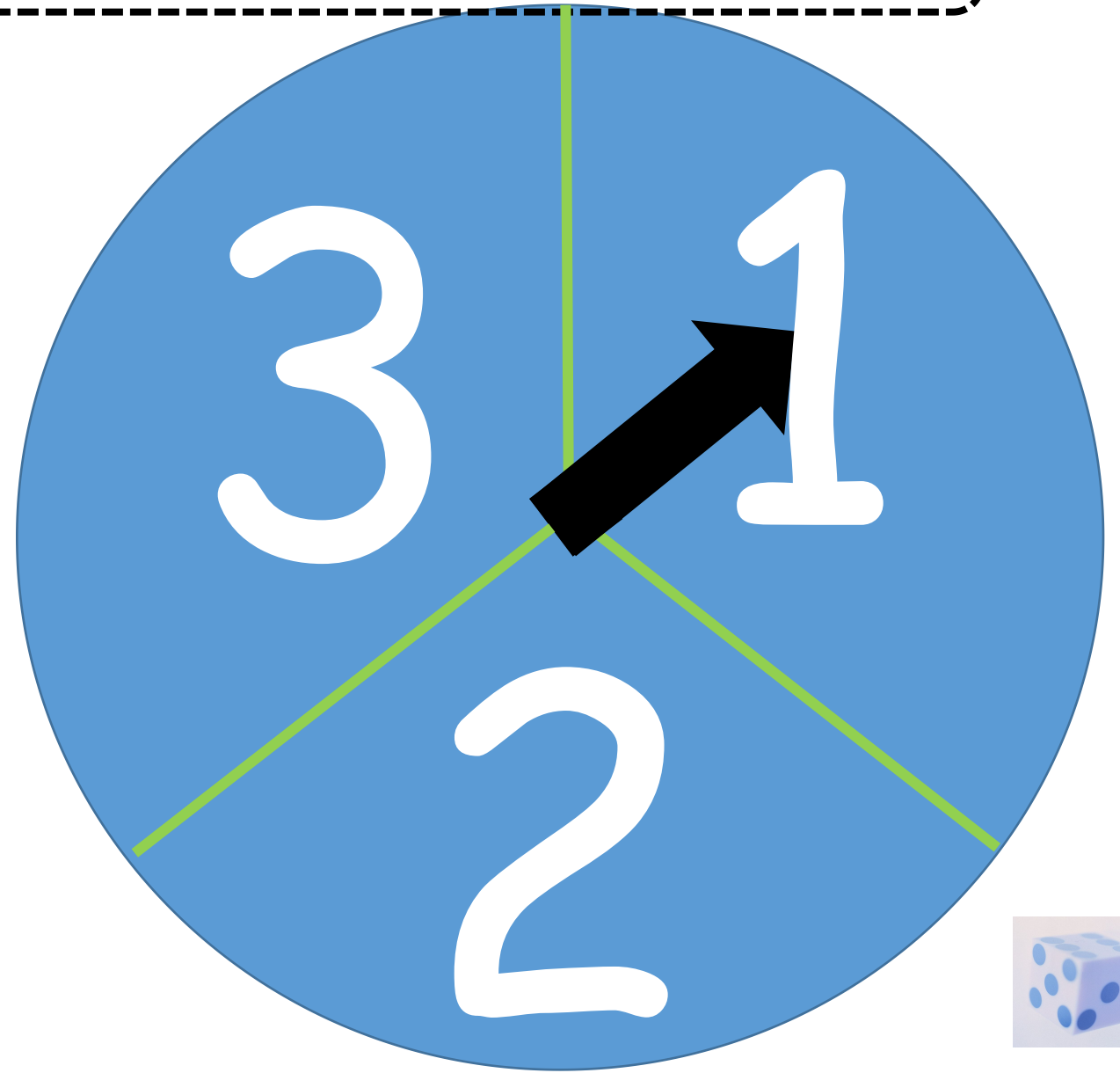
What is the probability that the spinner will stop on an odd number?

A. $\frac{1}{3}$

B. $\frac{2}{3}$

C. $\frac{3}{4}$

D. $\frac{1}{2}$





Probability written as fractions



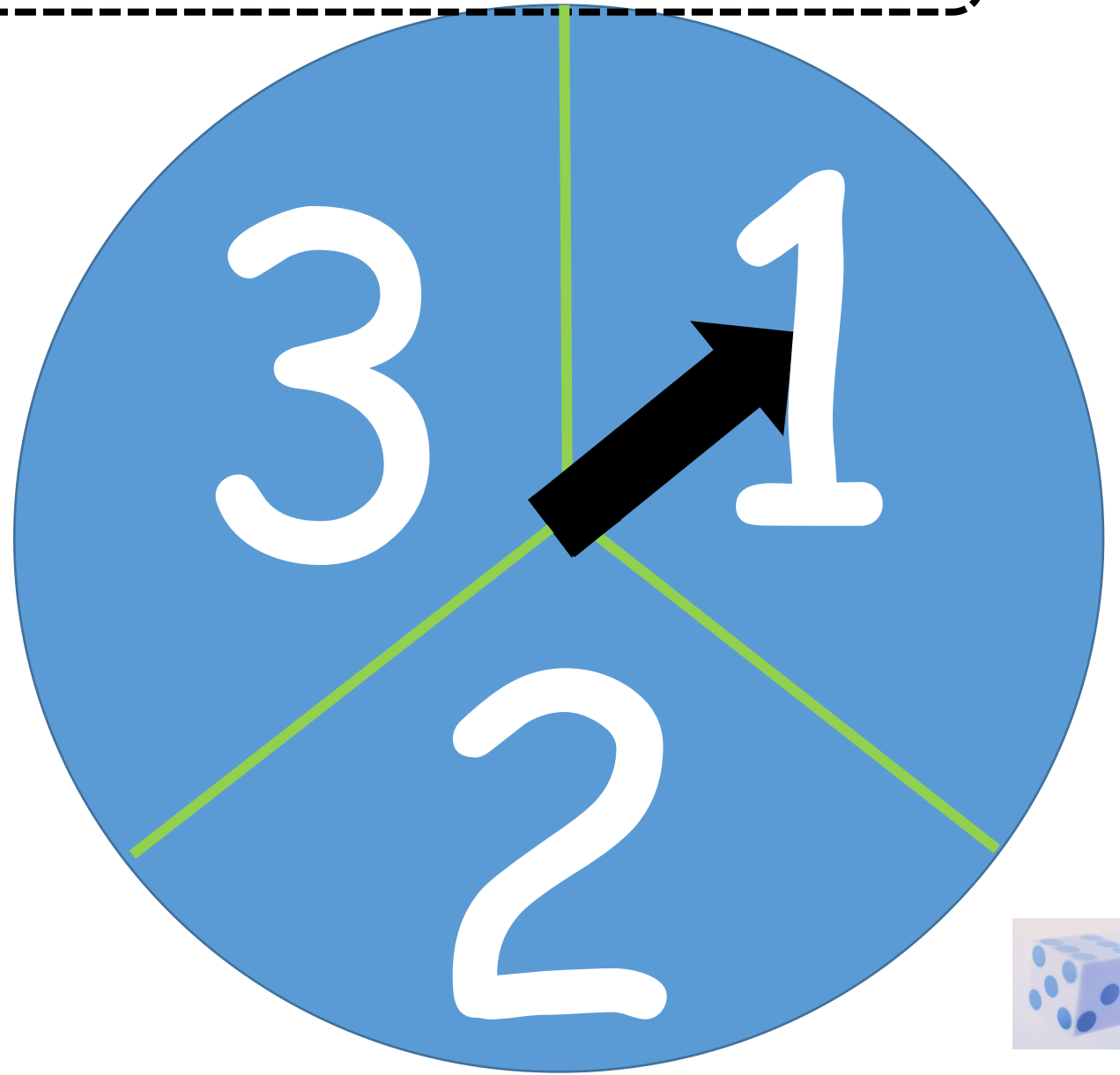
What is the probability that the spinner will stop on an odd number?

A. $\frac{1}{3}$

B. $\frac{2}{3}$

C. $\frac{3}{4}$

D. $\frac{1}{2}$

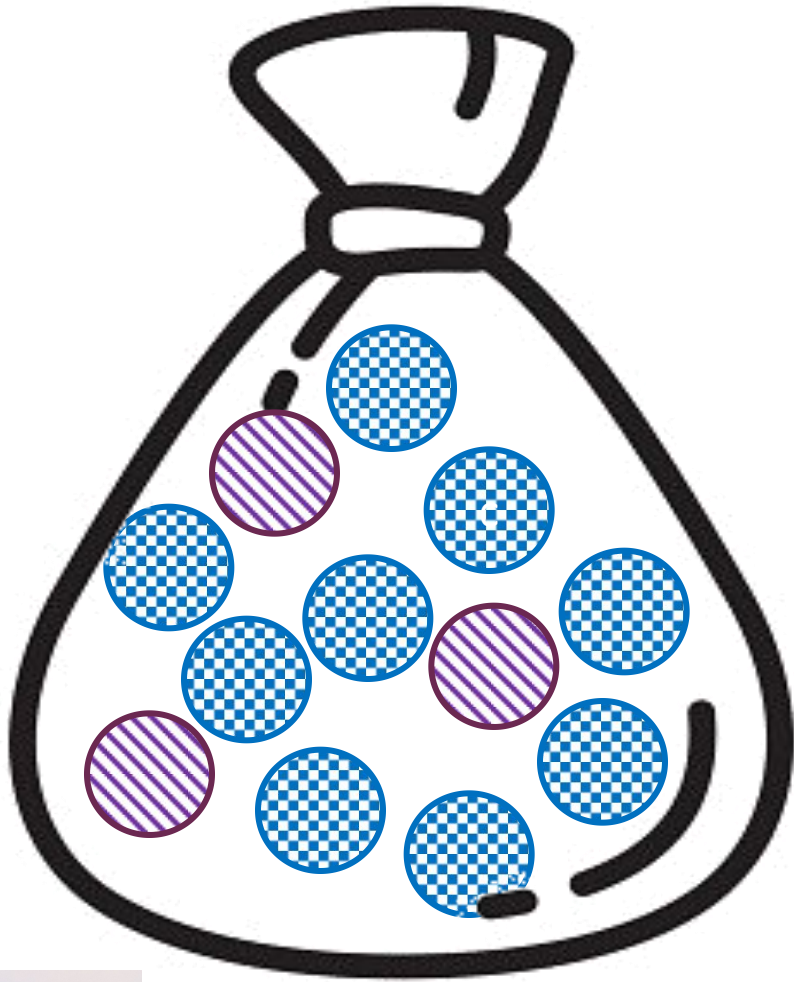




Probability written as percentage

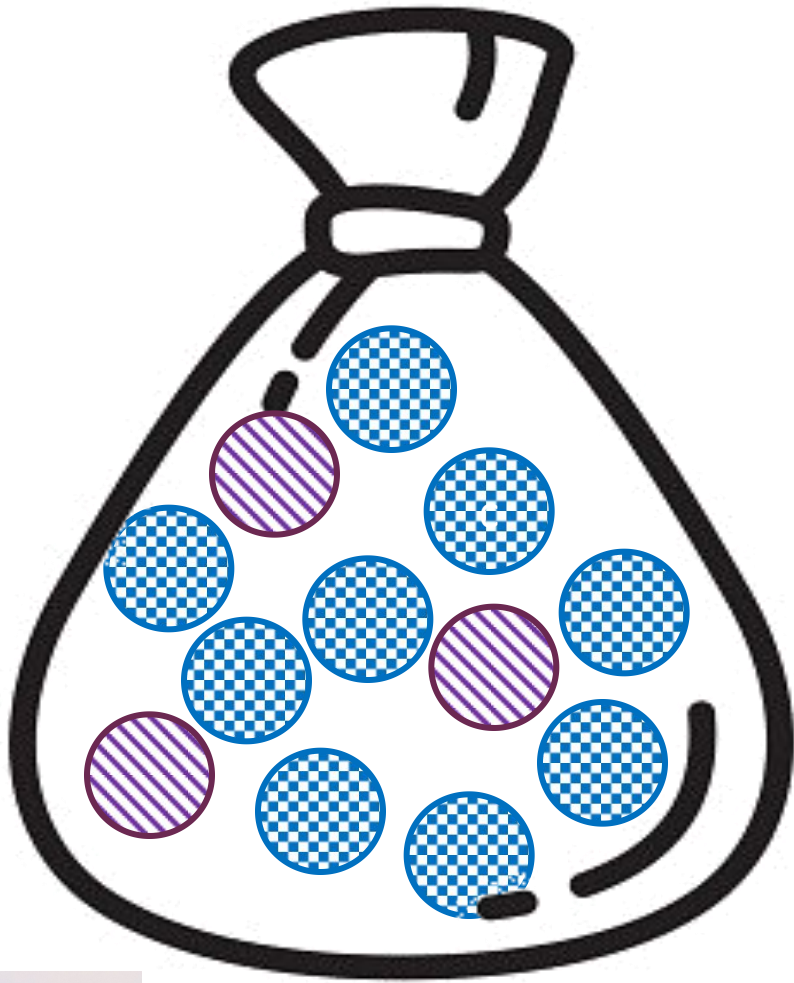


There are twelve marbles in a bag. 9 are blue, 3 are purple.





Probability written as percentage



There are twelve marbles in a bag. 9 are blue, 3 are purple.

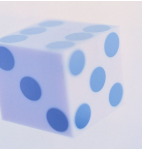
What is the probability of picking a blue marble?

A. 0%

B. 75%

C. 100%

D. 50%



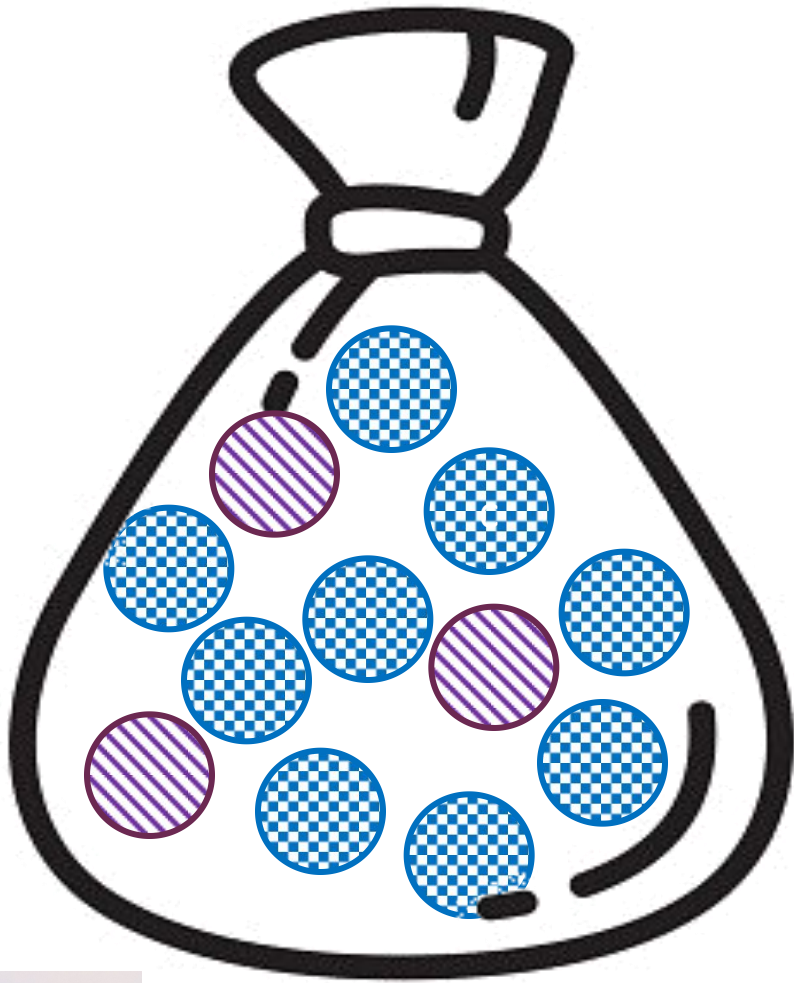


Probability written as percentage



There are twelve marbles in a bag. 9 are blue, 3 are purple.

What is the probability of picking a blue marble?



A. 0%

B. 75%

C. 100%

D. 50%



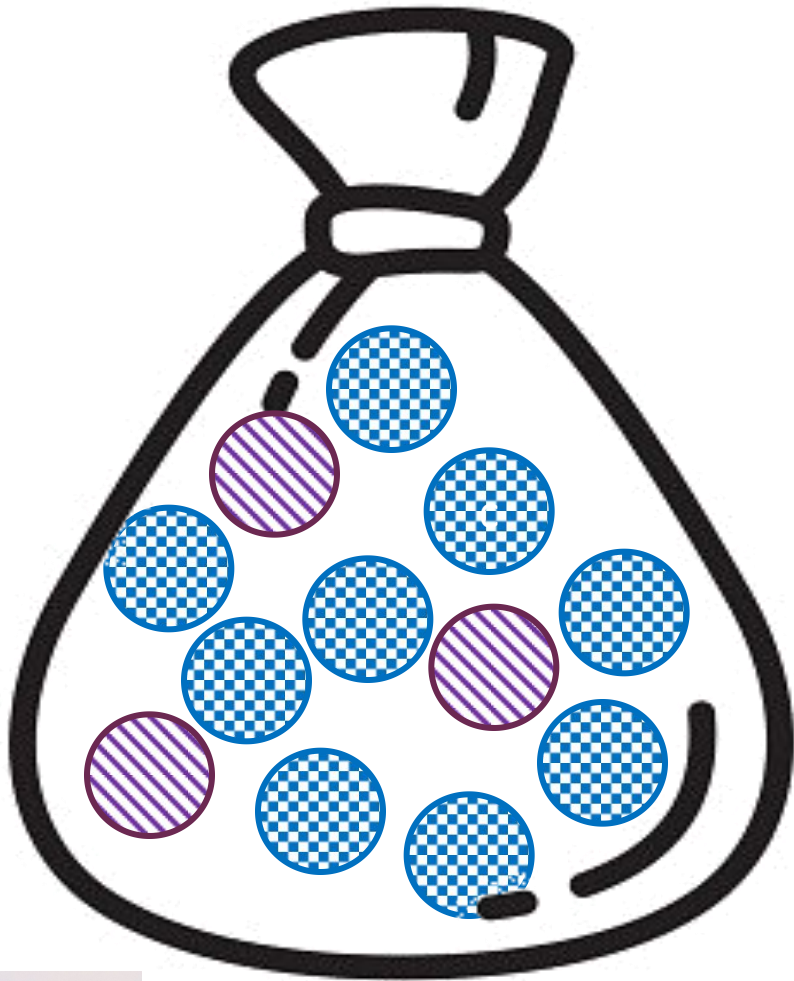


Probability written as percentage



There are twelve marbles in a bag. 9 are blue, 3 are purple.

What is the probability of picking a purple marble?



A. 100%

B. 75%

C. 50%

D. 25%



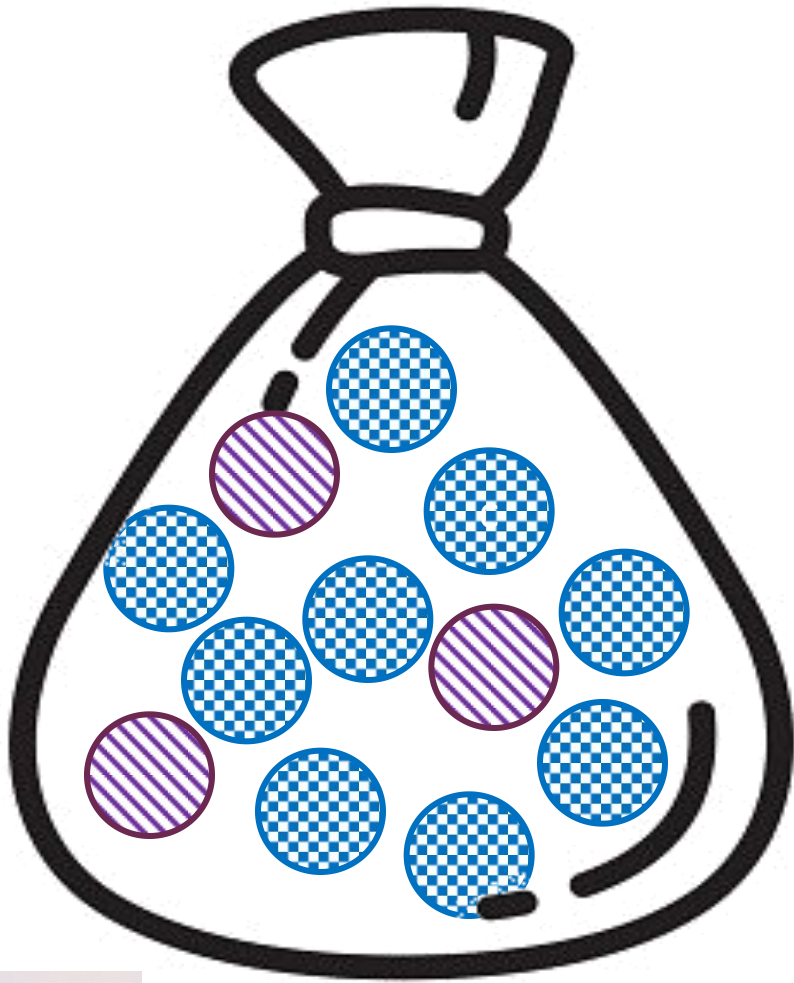


Probability written as percentage



There are twelve marbles in a bag. 9 are blue, 3 are purple.

What is the probability of picking a purple marble?



A. 100%

B. 75%

C. 50%

D. 25%





Probability

