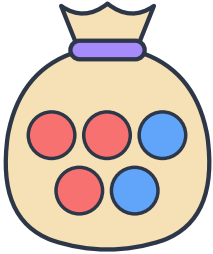


Impossible to Certain

How likely is each event? Name it with a word.

Colors:  red  blue  green  yellow

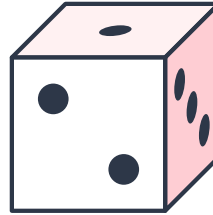
Write impossible, possible or certain.



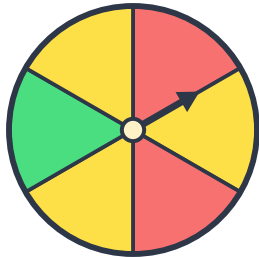
Example
Pick a blue
counter.

Pick a blue
counter.

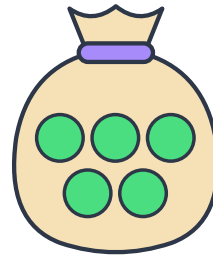
possible



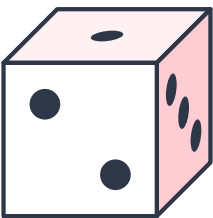
1. Roll a number
less than 7.



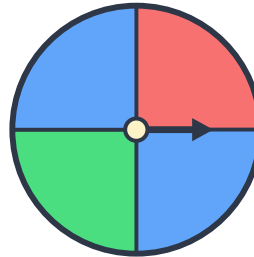
2. Spin blue.



3. Pick a green
counter.



4. Roll a 9.



5. Spin green or
blue.

Is it certain or uncertain? Circle one.

Example

A coin you flip lands on
heads.

certain

uncertain

6. The day after Monday is
Tuesday.

certain

uncertain

7. The next person to walk in wears
red.

certain

uncertain

8. Next week has 7 days.

certain

uncertain

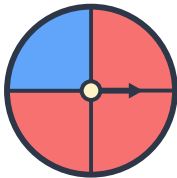
Impossible to Certain

Name each event and its opposite. Which is more likely?

Colors:  red  blue  green  yellow

B is the opposite of A. Write how likely each one is.

Example



A Spin red.

possible

B Do not spin red.

possible

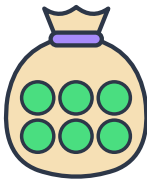
More likely?

A

B

equally likely

1.



A Pick green.

B Do not pick green.

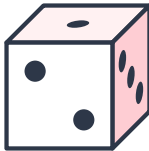
More likely?

A

B

equally likely

2.



A Roll an even number.

B Roll an odd number.

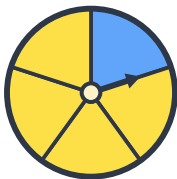
More likely?

A

B

equally likely

3.



A Spin blue.

B Spin yellow.

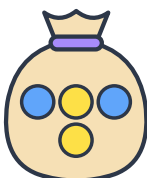
More likely?

A

B

equally likely

4.



A Pick red.

B Do not pick red.

More likely?

A

B

equally likely

Impossible to Certain

Show how likely each event is on a likelihood line.

Colors:  red  blue  green  yellow

Count the parts that match. Write each letter above its number.



A Spin red.

Example

B Spin purple.

C Spin green.

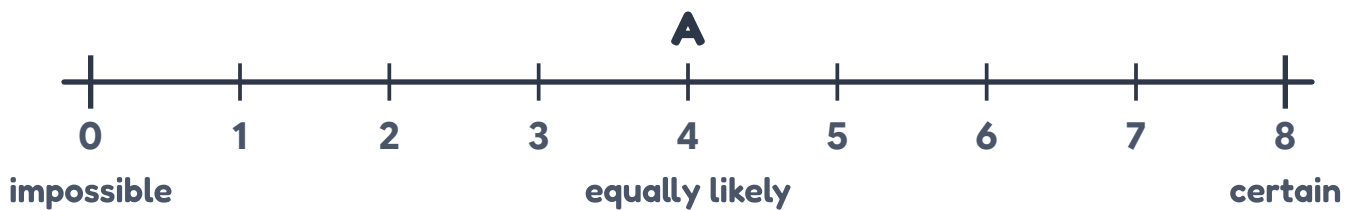
D Spin red or blue.

E Spin blue.

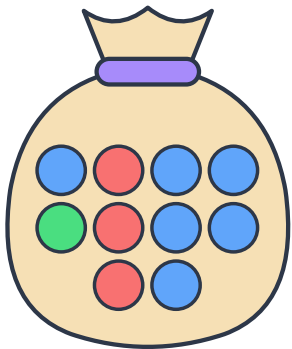
F Spin any color.

less likely

more likely



Write the letters in order, from least likely to most likely.



Pick one counter without looking.

G Pick red.

H Pick blue.

J Pick yellow.

K Pick green.

least likely

most likely

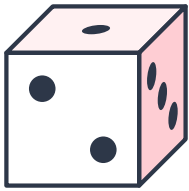
Impossible to Certain

Compare two events. Then choose the best spinner or bag.

Colors:  red  blue  green  yellow

Circle the more likely event, or circle equally likely.

Example

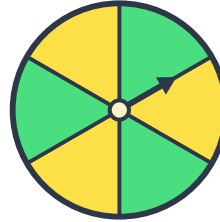


A Roll a 5.

B Roll a 1 or a 2.

A ☐ B ☒ equally likely

1.

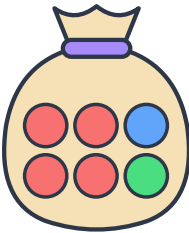


A Spin green.

B Spin yellow.

A ☐ B ☐ equally likely

2.

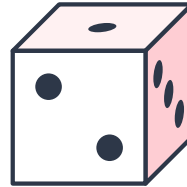


A Pick blue.

B Pick red.

A ☐ B ☐ equally likely

3.



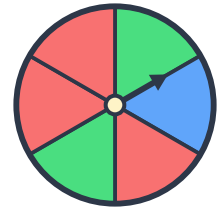
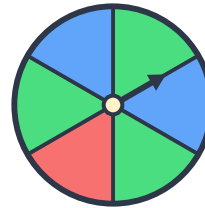
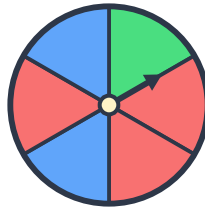
A Roll more than 2.

B Roll less than 3.

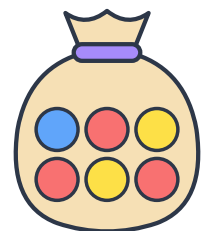
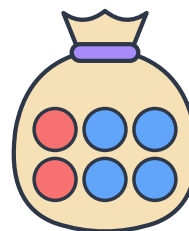
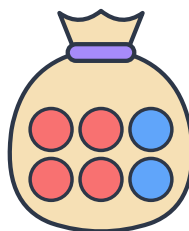
A ☐ B ☐ equally likely

Which one should they choose? Circle it.

4. Ava wins if she spins green. Which spinner should she use?



5. Leo will pick 10 times, putting the counter back each time. Which bag will probably give him red the most?



Impossible to Certain

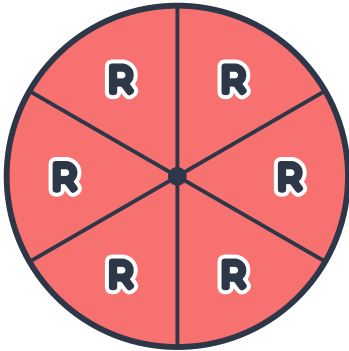
Write R, B, G or Y in each part to make it match.

Colors:  red (R)  blue (B)  green (G)  yellow (Y)

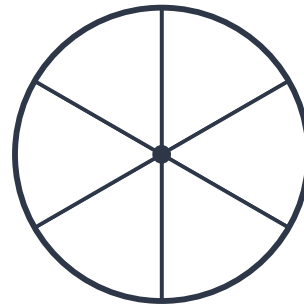
Make each spinner or bag match the sentences.

Example

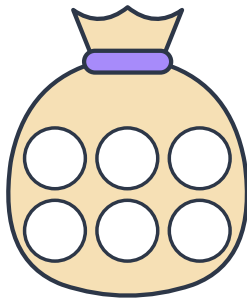
Red is certain.



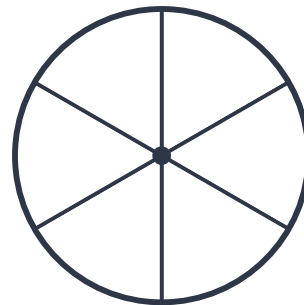
1. Blue is impossible. Red is more likely than green.



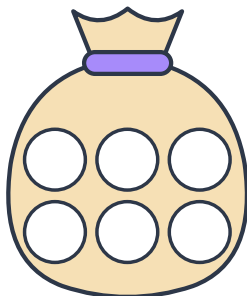
2. Red and blue are equally likely.
Green is impossible.



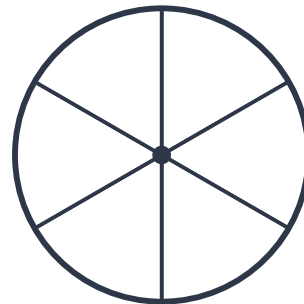
3. Yellow is possible, but it is less likely than blue.



4. Picking green or blue is certain.
Green is less likely than blue.



5. Red, blue and green are equally likely. Yellow is impossible.

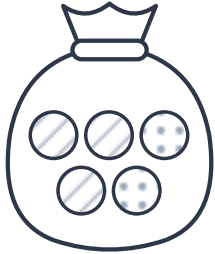


Impossible to Certain

How likely is each event? Name it with a word.

Colors:  red  blue  green  yellow

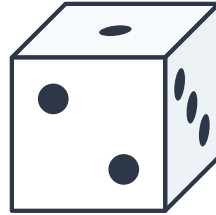
Write impossible, possible or certain.



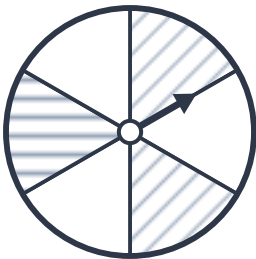
Example
counter.

Pick a blue

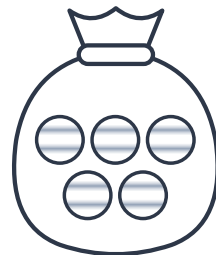
possible



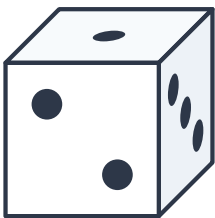
1. Roll a number less than 7.



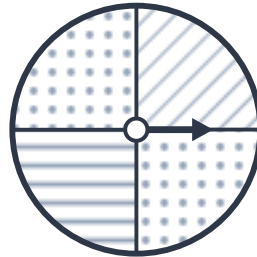
2. Spin blue.



3. Pick a green counter.



4. Roll a 9.



5. Spin green or blue.

Is it certain or uncertain? Circle one.

Example
heads.

A coin you flip lands on

certain

uncertain

6. The day after Monday is Tuesday.

certain

uncertain

7. The next person to walk in wears red.

certain

uncertain

8. Next week has 7 days.

certain

uncertain

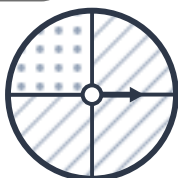
Impossible to Certain

Name each event and its opposite. Which is more likely?

Colors:  red  blue  green  yellow

B is the opposite of A. Write how likely each one is.

Example



A Spin red.

possible

B Do not spin red.

possible

More likely?

A

B

equally likely

1.



A Pick green.

B Do not pick green.

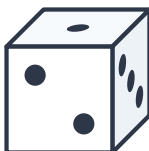
More likely?

A

B

equally likely

2.



A Roll an even number.

B Roll an odd number.

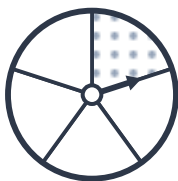
More likely?

A

B

equally likely

3.



A Spin blue.

B Spin yellow.

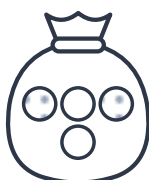
More likely?

A

B

equally likely

4.



A Pick red.

B Do not pick red.

More likely?

A

B

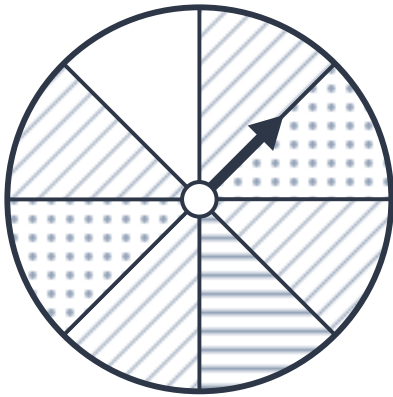
equally likely

Impossible to Certain

Show how likely each event is on a likelihood line.

Colors:  red  blue  green  yellow

Count the parts that match. Write each letter above its number.



A Spin red. Example

B Spin purple.

C Spin green.

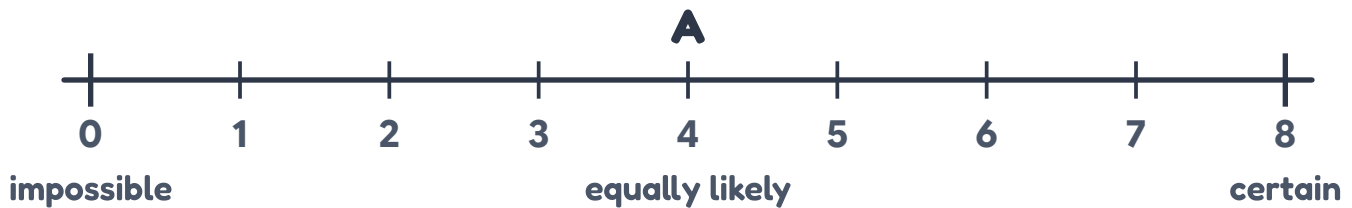
D Spin red or blue.

E Spin blue.

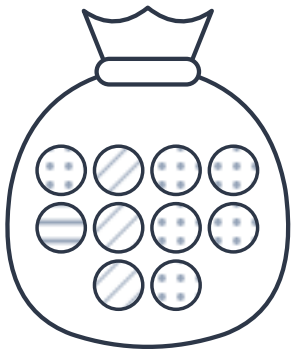
F Spin any color.

less likely

more likely



Write the letters in order, from least likely to most likely.



Pick one counter without looking.

G Pick red.

H Pick blue.

J Pick yellow.

K Pick green.

_____ least likely

_____ most likely

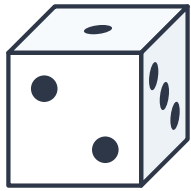
Impossible to Certain

Compare two events. Then choose the best spinner or bag.

Colors:  red  blue  green  yellow

Circle the more likely event, or circle equally likely.

Example

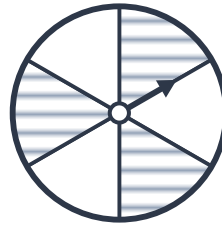


A Roll a 5.

B Roll a 1 or a 2.

A ☐ B ☒ equally likely

1.

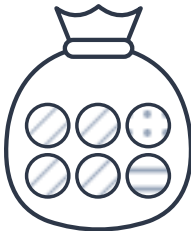


A Spin green.

B Spin yellow.

A ☐ B ☐ equally likely

2.

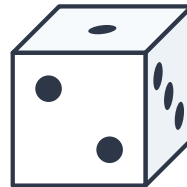


A Pick blue.

B Pick red.

A ☐ B ☐ equally likely

3.



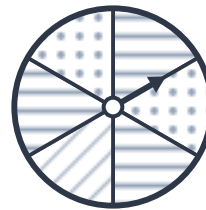
A Roll more than 2.

B Roll less than 3.

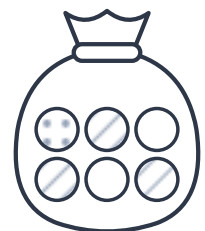
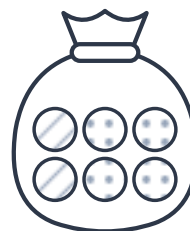
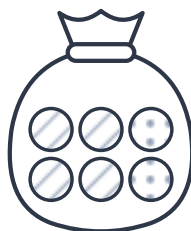
A ☐ B ☐ equally likely

Which one should they choose? Circle it.

4. Ava wins if she spins green. Which spinner should she use?



5. Leo will pick 10 times, putting the counter back each time. Which bag will probably give him red the most?



Impossible to Certain

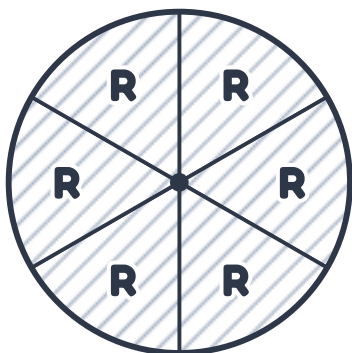
Write R, B, G or Y in each part to make it match.

Colors:  red (R)  blue (B)  green (G)  yellow (Y)

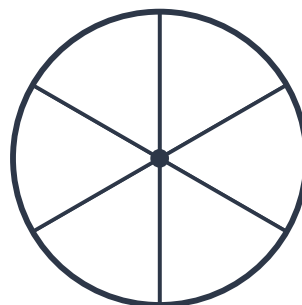
Make each spinner or bag match the sentences.

Example

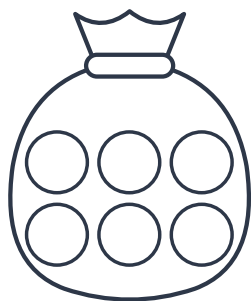
Red is certain.



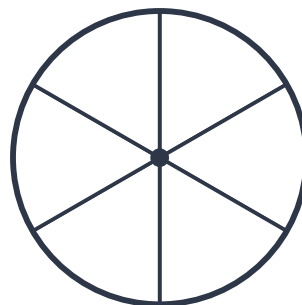
1. Blue is impossible. Red is more likely than green.



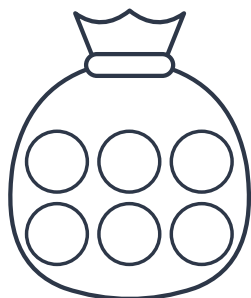
2. Red and blue are equally likely. Green is impossible.



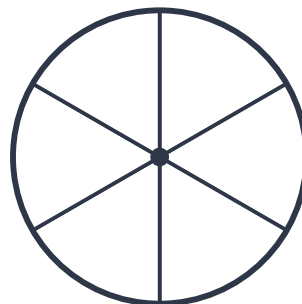
3. Yellow is possible, but it is less likely than blue.



4. Picking green or blue is certain. Green is less likely than blue.



5. Red, blue and green are equally likely. Yellow is impossible.

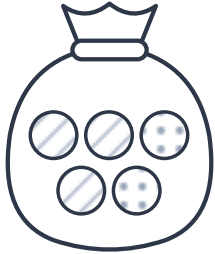


Impossible to Certain

How likely is each event? Name it with a word.

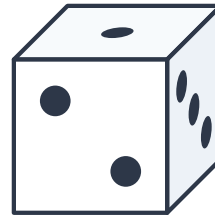
Colors:  red  blue  green  yellow

Write impossible, possible or certain.



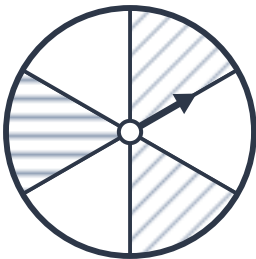
Example Pick a blue counter.

possible



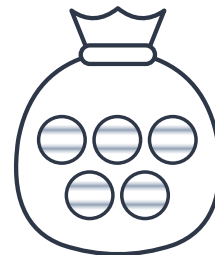
1. Roll a number less than 7.

certain



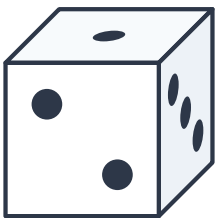
2. Spin blue.

impossible



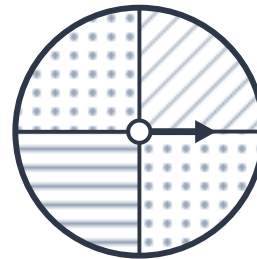
3. Pick a green counter.

certain



4. Roll a 9.

impossible



5. Spin green or blue.

possible

Is it certain or uncertain? Circle one.

Example A coin you flip lands on heads.

certain

uncertain

6. The day after Monday is Tuesday.

certain

uncertain

7. The next person to walk in wears red.

certain

uncertain

8. Next week has 7 days.

certain

uncertain

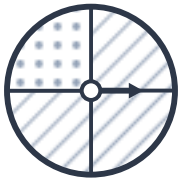
Impossible to Certain

Name each event and its opposite. Which is more likely?

Colors:  red  blue  green  yellow

B is the opposite of A. Write how likely each one is.

Example



A Spin red.

possible

B Do not spin red.

possible

More likely?

A B

equally likely

1.



A Pick green.

certain

B Do not pick green.

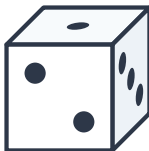
impossible

More likely?

A B

equally likely

2.



A Roll an even number.

possible

B Roll an odd number.

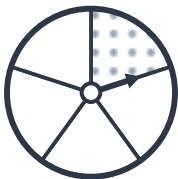
possible

More likely?

A B

equally likely

3.



A Spin blue.

possible

B Spin yellow.

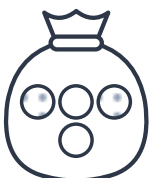
possible

More likely?

A B

equally likely

4.



A Pick red.

impossible

B Do not pick red.

certain

More likely?

A B

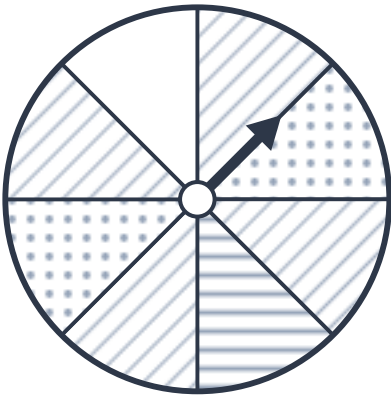
equally likely

Impossible to Certain

Show how likely each event is on a likelihood line.

Colors:  red  blue  green  yellow

Count the parts that match. Write each letter above its number.



A Spin red. **Example**

B Spin purple.

C Spin green.

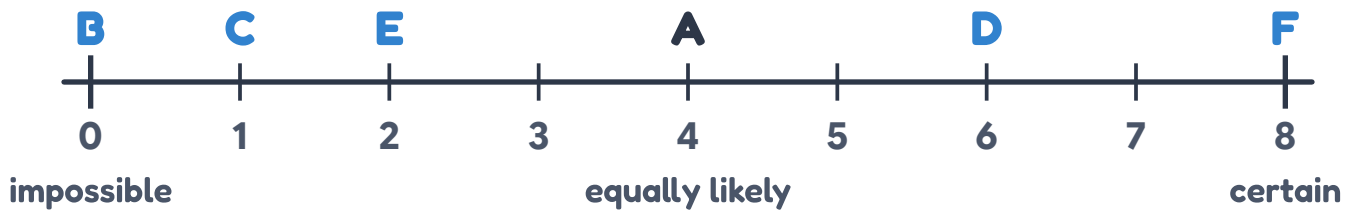
D Spin red or blue.

E Spin blue.

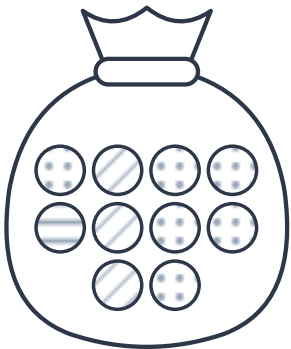
F Spin any color.

less likely

more likely



Write the letters in order, from least likely to most likely.



Pick one counter without looking.

G Pick red.

H Pick blue.

J Pick yellow.

K Pick green.

J
least likely

K

G

H
most likely

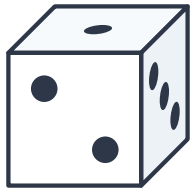
Impossible to Certain

Compare two events. Then choose the best spinner or bag.

Colors:  red  blue  green  yellow

Circle the more likely event, or circle equally likely.

Example

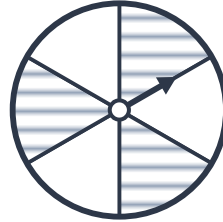


A Roll a 5.

B Roll a 1 or a 2.

A ☐ B ☒ equally likely

1.

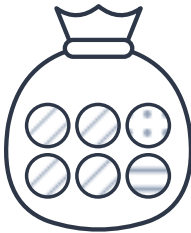


A Spin green.

B Spin yellow.

A ☐ B ☒ equally likely

2.

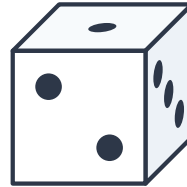


A Pick blue.

B Pick red.

A ☐ B ☒ equally likely

3.



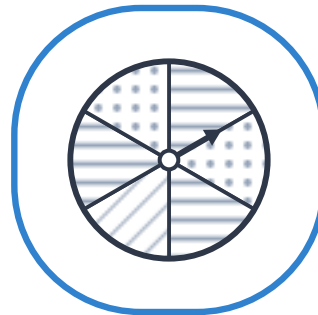
A Roll more than 2.

B Roll less than 3.

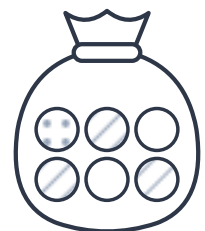
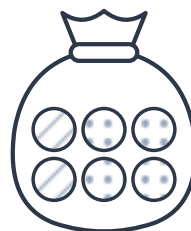
☒ A ☐ B equally likely

Which one should they choose? Circle it.

4. Ava wins if she spins green. Which spinner should she use?



5. Leo will pick 10 times, putting the counter back each time. Which bag will probably give him red the most?



Impossible to Certain

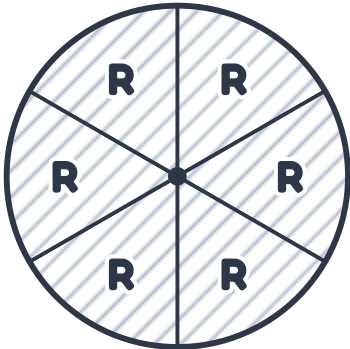
Write R, B, G or Y in each part to make it match.

Colors:  red (R)  blue (B)  green (G)  yellow (Y)

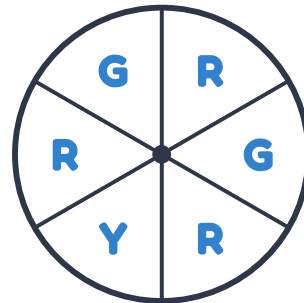
Make each spinner or bag match the sentences.

Example

Red is certain.

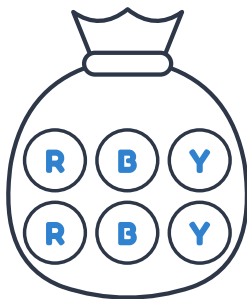


1. Blue is impossible. Red is more likely than green.



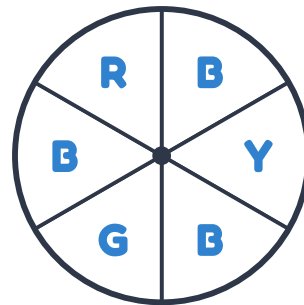
One way

2. Red and blue are equally likely.
Green is impossible.



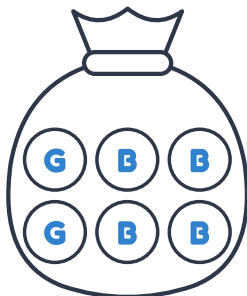
One way

3. Yellow is possible, but it is less likely than blue.



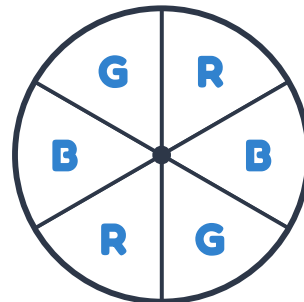
One way

4. Picking green or blue is certain.
Green is less likely than blue.



One way

5. Red, blue and green are equally likely.
Yellow is impossible.



One way