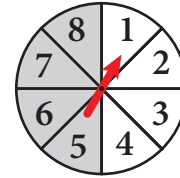


Basic Probability as Fractions

A-BP 1

Instructions: Use this spinner to answer the following questions:
(Use fraction form to express the probabilities and simplify if possible.)



1 What is the probability of spinning a 1? $\frac{1}{8}$ _____

2 What is the probability of spinning a 1 or a 2? $\frac{2}{8}$ or $\frac{1}{4}$ _____

3 What is the probability of spinning a 6? _____

4 What is the probability of spinning a white sector? _____

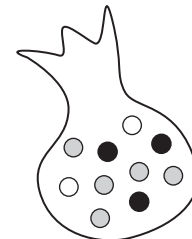
5 What is the probability of spinning a 10? _____

6 What is the probability of spinning an even number? _____

7 What is the probability of spinning a grey sector? _____

8 What is the probability of spinning a number greater than 5? _____

Instructions: Use this bag of 10 marbles to answer the following questions: (Use fraction form to express the probabilities and simplify if possible.)



If you randomly select a marble...

9 What is the probability that it will be black? _____

10 What is the probability that it will be grey? _____

11 What is the probability that it will be white? _____

12 What is the probability that it will be green? _____

13 What is the probability that it will be black or white? _____

14 What is the probability that it will be black or grey? _____

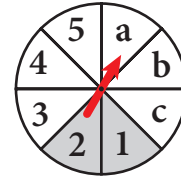
15 What is the probability that it will be white or grey? _____

16 What is the probability that it will not be green? _____

Basic Probability as Fractions, Decimals and Percents

A-BP 2

Instructions: Use this spinner to answer the following questions:
(You can use a calculator to get the decimal values if you need to.)



1 What is the probability of spinning a number?

$\frac{5}{8}$	0.625	62.5%
fraction	decimal	percentage

2 What is the probability of spinning a letter?

_____	_____	_____
fraction	decimal	percentage

3 What is the probability of spinning a 'b'?

_____	_____	_____
fraction	decimal	percentage

4 What is the probability of spinning a grey sector?

_____	_____	_____
fraction	decimal	percentage

5 What is the probability of spinning a white sector?

_____	_____	_____
fraction	decimal	percentage

6 What is the probability of spinning a number less than 5?

_____	_____	_____
fraction	decimal	percentage

7 What is the probability of spinning a number or a letter?

_____	_____	_____
fraction	decimal	percentage

8 What is the probability of spinning a 6?

_____	_____	_____
fraction	decimal	percentage

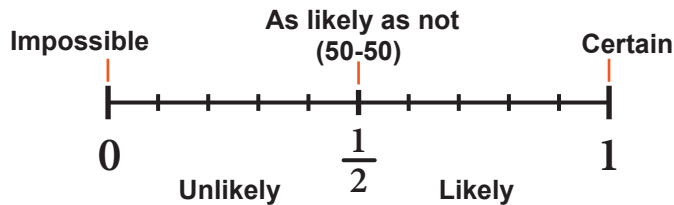
9 What is the probability of spinning a white sector or a 2?

_____	_____	_____
fraction	decimal	percentage

Likely or Unlikely? Etc.

A-BP 3

Instructions: For each question below, tell if the event described would be “impossible”, “unlikely”, “as likely as not” (you can write “50-50”), “likely” or “certain”.



- 1** What is the probability of flipping “heads” in a fair coin toss?

as likely as not (or 50-50)

- 2** If the weather report says there is a 100% chance of rain in the afternoon, it means that rain is...

- 3** A bag of marbles contains 10 red, 5 green and 7 blue marbles. How would you describe the probability of randomly choosing a yellow marble from the bag?

- 4** On a multiple choice question, if there are 5 possible answers, getting the right answer by a completely random guess would be...

- 5** If a music playlist contains 8 songs you like and 2 you don’t, randomly playing a song that you like is...

- 6** Rolling a 6 on a standard 6-sided die is considered...

- 7** Rolling an even number on a standard 6-sided die would be...

- 8** If the weather report says there is a 20% chance of snow, that would be considered...

- 9** If a bag of marbles contains 10 blue, 4 yellow and 4 red marbles, randomly choosing a blue marble would be...

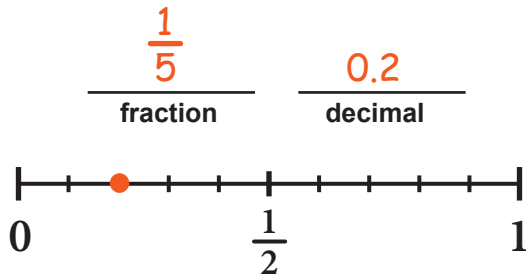
- 10** If an assorted box of chocolates contains 20 different kinds, and you like all of them, what is the probability that you will randomly select one that you like?

The Probability Line

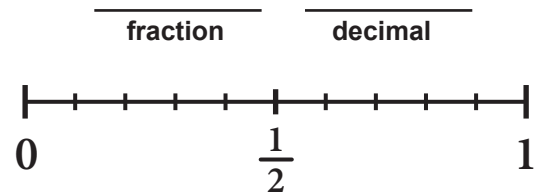
A-BP 4

Instructions: Answer the following probability questions using both fraction and decimal form. (You can use a calculator to get the decimal form if you need to.) Then plot the probabilities on the Probability Line.

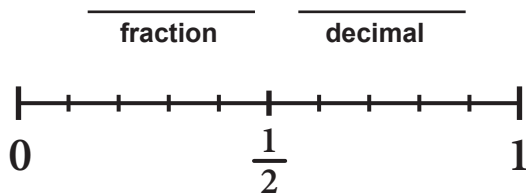
- 1** A spinner has 5 equally sized sectors numbered 1 thru 5. What is the probability of spinning a 2?



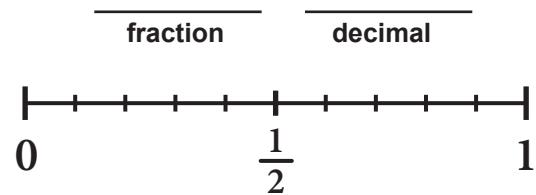
- 2** What is the probability of rolling an even number on a standard 6-sided die?



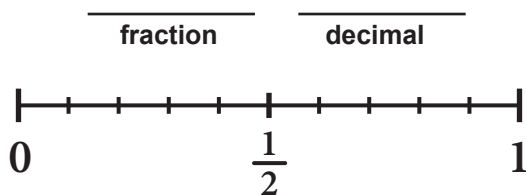
- 3** A bag contains 20 marbles. 5 are blue and the rest are red. What is the probability of randomly choosing a red marble?



- 4** A spinner has 10 equally sized sectors numbered 1 thru 10. What is the probability of spinning a number that's greater than 1?



- 5** A box of popsicles contains 3 cherry, 3 grape and 4 orange. What is the probability of randomly choosing orange?



- 6** A box of 12 chocolates has 3 pieces that contain nuts. If you choose at random, what is the probability of getting a piece with nuts?

