

Independent Events Worksheet

Name: _____

- You roll a six sided dice.
 - What is the probability that you will roll "1"?
 - What is the probability that will roll a "2", then a "4"?
- A bag contains 5 blue skittles, 2 red skittles, and 3 orange skittles. A friend asks you to pick a skittle without looking.
 - What is the probability that you pick a blue skittle?
 - What is the probability that the skittle that you pick is not red?
- Each of the letters in the word SAMSUNG are on separate cards, face down on the table. If you pick a card at random, what is the probability that you pick the letter S or U?
- A bag contains ten black marbles, twenty white marbles, and five grey marbles. You pick one without looking. What is the probability that the marble will be either white or black?
- You ask a friend to think of a number from four to twelve. What is the probability that his number will be 8?
- Each of the letters in the word OPPORTUNITIES are on separate cards, face down on a table. If you pick a card at random, what is the probability that you will pick the letter O, then the letter I?
- A bag contains 6 purple sticks, 2 orange sticks, and 4 black sticks. You ask a friend to pick one without looking.
 - What is the probability that the stick she picks will not be purple?
 - What is the probability that she will pick an orange, then a black and then an orange?

Independent Events Worksheet

Name: Key

- You roll a six sided dice.
 - What is the probability that you will roll "1"? $\frac{1}{6}$
 - What is the probability that will roll a "2", then a "4"? $\frac{1}{6} \cdot \frac{1}{6} = \frac{1}{36}$
- A bag contains 5 blue skittles, 2 red skittles, and 3 orange skittles. A friend asks you to pick a skittle without looking.
 - What is the probability that you pick a blue skittle? $\frac{5}{10}$
 - What is the probability that the skittle that you pick is not red? $\frac{8}{10}$
- Each of the letters in the word SAMSUNG are on separate cards, face down on the table. If you pick a card at random, what is the probability that you pick the letter S or U? $\frac{3}{7}$
- A bag contains ten black marbles, twenty white marbles, and five grey marbles. You pick one without looking. What is the probability that the marble will be either white or black? $\frac{30}{35}$
- You ask a friend to think of a number from four to twelve. What is the probability that his number will be 8? $\frac{1}{9}$
- Each of the letters in the word OPPORTUNITIES are on separate cards, face down on a table. If you pick a card at random, what is the probability that you will pick the letter O, then the letter I? $\frac{2}{13} \cdot \frac{2}{13} = \frac{4}{169}$
- A bag contains 6 purple sticks, 2 orange sticks, and 4 black sticks. You ask a friend to pick one without looking.
 - What is the probability that the stick she picks will not be purple? $\frac{6}{12}$
 - What is the probability that she will pick an orange, then a black and then an orange? $\frac{2}{12} \cdot \frac{4}{12} \cdot \frac{2}{12} = \frac{16}{1728} = \frac{1}{108}$