

Name:

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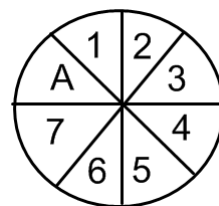
Algebra 1  
WS 11.4A Probability

A spinner numbers 1 through 10 is spun. Each outcome is equally likely. Find each probability.

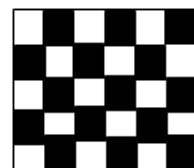
1.  $P(9)$
2.  $P(\text{even})$
3.  $P(\text{number greater than } 0)$
4.  $P(\text{multiple of } 4)$

There are 8 blue marbles, 9 orange marbles, and 6 yellow marbles in a bag. It is equally likely that any marble drawn is from the bag. Find each probability.

5.  $P(\text{a blue marble})$
6.  $P(\text{a yellow marble})$
7.  $P(\text{not an orange marble})$
8. Find each probability if you spin the spinner once.
  - a.  $P(\text{even number})$
  - b.  $P(\text{odd number})$
  - c.  $P(A)$



9. Find each probability if a raindrop falls on the tiles.
  - a.  $P(\text{falling on black})$
  - b.  $P(\text{falling on white})$
  - c.  $P(\text{falling on green})$



Suppose you have a box that contains 12 slips of paper as shown. Each slip of paper is equally likely to be drawn. Find the probability of each event.

10.  $P(\text{blue})$

11.  $P(\text{yellow})$

12.  $P(\text{red or blue})$

13.  $P(\text{blue or yellow})$

14.  $P(\text{not red})$

15.  $P(\text{not yellow})$

16. A traffic light is green for 20 seconds, then amber for 5 seconds, the red for 30 seconds.

When you reach the signal, what is the probability it is:

a. Green

b. Red

17. You have all the face cards of a standard deck. You select one card, record what you picked and replace it in the pile. Below is what you recorded.

Jack	Queen	King
14	25	19

a. What is the probability of selecting a jack?

b. What is the probability of selecting a king?

c. What is the probability of not selecting a king?

red	blue	yellow	blue
yellow	red	blue	red
red	red	red	yellow