$\qquad$

1. Six balls numbered from 1 to 6 are placed in an urn. If one ball is selected at random, find the probability that it is an odd-numbered ball.
[A] $\frac{1}{6}$
[B] $\frac{1}{2}$
[C] $\frac{5}{6}$
[D] $\frac{2}{3}$
2. A single six-sided fair die is tossed. Find the probability of obtaining a number greater than 4.
[A] $\frac{1}{3}$
[B] 1
[C] $\frac{1}{6}$
[D] $\frac{5}{6}$
3. You are one of 30 people entering a contest. What is the probability that your name will be drawn first?
[A] $\frac{1}{31}$
[B] $\frac{1}{15}$
[C] $\frac{1}{30}$
[D] $\frac{1}{29}$
4. Given the set of numbers $(0,1,2,3,4,5,6,7$, 8 ), if one of the numbers of the set is chosen at random, find the probability that the number is a solution of $3 x+1<13$.
[A] $\frac{1}{2}$
[B] $\frac{4}{9}$
[C] $\frac{1}{9}$
[D] $\frac{5}{9}$
5. This is a spinner used in a board game Helen invented.


What is the probability that the spinner will land on a multiple of 3 and 4 ?
[A] $\frac{1}{8}$
[B] $\frac{1}{4}$
[C] $\frac{3}{8}$
[D] $\frac{1}{2}$
[E] $\frac{5}{8}$
7. Donato's little brother Joseph is too small to see inside his sock drawer. Joseph has 2 pairs of white socks, 4 pairs of black socks, and 1 pair of blue socks inside his drawer. If the socks are not paired together, what is the probability that Joseph will reach inside his drawer and pick a black sock?
[A] $\frac{2}{7}$
[B] $\frac{3}{7}$
[C] $\frac{4}{7}$
[D] $\frac{6}{7}$
5. What is the probability of drawing a spade from a deck of 52 playing cards?
[A] $\frac{1}{2}$
[B] $\frac{13}{100}$
[C] $\frac{1}{3}$
[D] $\frac{1}{4}$
$\qquad$
8. Compare the quantities in Column A and Column B.

Column A
the probability of choosing a blue marble from a box

## Column B

the probability of choosing
a white marble from a box
[A] The quantity in Column A is greater.
[B] The quantity in Column B is greater.
[C] The quantities are equal.
[D] The relationship cannot be determined from the information given.
9. Compare the quantities in Column A and Column B.

Column A Column B
$P$ (odd number) when $\quad P$ (even number) when
choosing from $1,2,3$ choosing from $1,2,3$
[A] The quantity in Column A is greater.
[B] The quantity in Column B is greater.
[C] The quantities are equal.
[D] The relationship cannot be determined from the information given.
10.

|  | 1 | 2 | 3 | 4 | 56 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 |  |
| 2 | 3 | 4 | 5 |  |  |
| 3 | 4 | 5 | 6 |  |  |
| 4 | 5 |  |  |  |  |
| 5 |  |  |  |  |  |
| 6 |  |  |  |  |  |

The figure above is a partially completed table showing the possible combinations of the roll of two number cubes. How many different combinations from the completed table will result in a roll of two cubes having a value of seven?
[A] 12
[B] 1
[C] 3
[D] 6
11. Make up a game that involves finding the probability that you will score points. Describe the probability involved.

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[1] B
[2] A
[3] C
[4] B
[5] D
[6] C
[7] C
[8] D
[9] A
[10] D
[11] Check students' work.

