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## Pretest

## Find the total number of outcomes in each situation

## 1. choosing a number on a number cube and tossing a coin

1. 12
2. choosing one meat from chicken, beef, or pork; either a baked potato or hash browns; a vegetable of either green beans, carrots, or corn
3. choosing either a basketball or volleyball with color
choices of red, white, orange, or blue

A number cube is rolled. Find each probability.
4. $P$ (even number)
5. $P$ (number less than 5 )
6. $P(2$ or 3$)$
7. $P$ (number greater than 1 )
4. $\quad \frac{1}{2}$
5. $\frac{2}{3}$
6. $\frac{1}{3}$
7.
3.

## 8

2. 18

## Find the total number of possible outcomes.

8. selecting a president, vice-president, and secretary from a class of 18 students
9. 4,896
10. the number of different ways that five people can stand in a line
11. 120
12. the number of different ways that first and second prizes can be determined from a total of 10 participants, assuming no ties
10.90
State whether the events are independent or dependent.
13. tossing a coin and rolling a number cube
14. independent
15. selecting one marble from a hat, not replacing it, and then selecting a second marble
16. 

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13. spinning a spinner with four equal sections and tossing a coin
13.
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