## 8.3 - Skills Check

Date $\qquad$

## Determine if the scenario is mutually exclusive or overlapping.

1) You roll a fair six-sided die. The die shows an odd number or a number greater than two.
2) There are four nickels, five dimes, and four quarters in your pocket. You randomly pick a coin. It is a nickel or a dime.

## Find the probability.

3) A cooler contains twelve bottles of sports drink: four lemon-lime flavored, five orange flavored, and three fruit-punch flavored. You randomly grab a bottle. It is a lemon-lime or an orange.
4) You roll a fair six-sided die. The die shows an odd number or a number greater than three.

Find the number of possible outcomes in the sample space (hint: counting principle).
5) A jewelry store sells gold and platinum rings. Each ring is available in nine styles and is fitted with one of eight gemstones.
6) A softball player bats five times in a game. Each at-bat results in an out, getting on base, or hitting a home run.

