

## 5.2

**Organize Outcomes***MathLinks 7, pages 165–170***Key Ideas Review***Choose from the following terms to complete #1 and #2.*

dependent independent other diagrams sample space tables tree diagrams

1. Complete the statement.

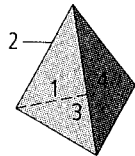
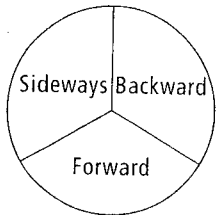
Two events are \_\_\_\_\_ if the outcome of one event has no effect on the outcome of the other event.

2. To organize outcomes for two independent events, you can create

a) \_\_\_\_\_; b) \_\_\_\_\_; c) \_\_\_\_\_

**Practise and Apply**

3. Dylan spins the spinner and rolls the die to move ahead in the game she is playing.



4. Alianna flips a coin and chooses one of four types of school supplies: pencil (p), eraser (e), calculator (c), or ruler (r).

- a) Draw a tree diagram to organize the possible outcomes of these two events.

- a) Organize the outcomes of these two events in a table.

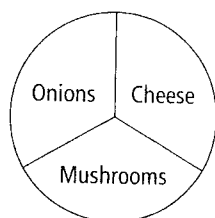
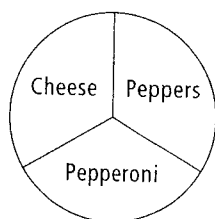
- b) What is the sample space for these two events?

- b) What is the sample space for these two events?

Name: \_\_\_\_\_

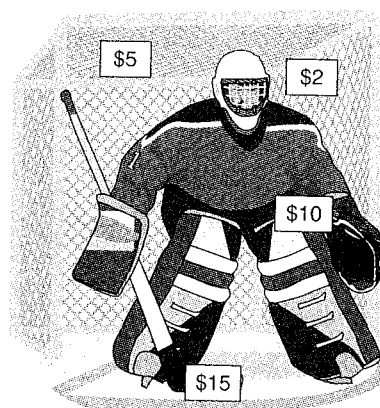
Date: \_\_\_\_\_

5. Pete spins two spinners to choose toppings for his pizza.



- a) Create a tree diagram or table to show all the possible combinations for two-topping pizzas.

6. Sanjay is shooting a puck at the net to win a prize.



- a) Sanjay shoots two pucks at the net. Create a tree diagram to show the sample space, assuming that he does not miss either shot.

- b) What is the sample space?

- b) What is the probability that Sanjay will win an even amount of money after two shots?