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Additional Activity 1: Match My Meaning!

Work with a partner. Carefully cut apart these cards.

certain	will definitely happen
impossible	cannot happen
possible	could happen
probable	is likely to happen
improbable	is unlikely to happen

- > Place all the cards face down.
- > Take turns flipping over 2 cards.
- > If the cards match (word and meaning), keep them and take another turn.
- > The winner is the player who collects the most cards.
- > Play 5 rounds. The grand winner is the player who wins the most rounds.

Take It Further:

Write about a situation that can be described using the words on the cards.

Name	Date	

Additional Activity 2: Animal Draw

Work with a partner.

> Look at the animal names listed here. What fraction of the list are Cats? Insects? Birds? Fish?

Cougar	Lion	Tiger	Panther
Beetle	Fly	Mosquito	Ladybug
Crow	Eagle	Salmon	Tuna

- Cut apart the animal names and place them in a bag.
- > You will pull out an animal name without looking, then replace it in the bag.
- Make a prediction. In 30 tries, about how many times do you expect to draw a cat? An insect? A fish? A bird?
- > Shake up the bag. Reach in and pull out a name without looking. Record your result and replace the name. Make 30 draws in all.
- > Did your actual draws match your prediction? Explain.

Take It Further:

Find as many different equivalent fractions as possible to express the probability of drawing an insect.

Name	Date	

Additional Activity 3: Fold Your Tents!

Work with a partner.

You will need 20 matching squares of paper about 2 cm by 2 cm and a tray.

- Fold each piece of paper in half to make a small "tent."
- > Stand all your tents on a tray. Each tent should have the fold facing up.
- Shake the tray so that all the tents fall off and land on the floor.
- What fraction of the tents have landed fold up? What fraction landed lying on one side? What fraction landed standing on one end?
- Repeat the experiment 4 more times.
- Record your results each time.
- > Based on your results, predict what fraction of the tents will land fold up after your next toss.
- Toss the tents once more. Count the tents that landed fold up. Did your actual results match your prediction? Explain.

Take It Further:

Predict the fraction of the tents that will land fold up after the 10th and 20th tosses.

Name	Date
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Additional Activity 4: Robot Roundup

Imagine you are in charge of a robot factory.

Each robot needs 2 arms, 2 wheels, and a box-shaped body.

Both arms must be the same colour. Both wheels must be the same colour.

For each component, you have the colour choices shown here:

Arms: yellow or blue Wheels: green or purple Body: red or black or grey

- Use a tree diagram to find out how many different robots you can make.
- > Draw and colour one of the robots.
- > If you picked the components without looking, what are the chances you would create a grey robot with blue arms and purple wheels?

Take It Further:

Add another component (for example, a control panel in gold or silver) and work out how many different robots can now be produced.