Convert Fractions to Percents

To convert a fraction to a percent, convert the fraction to a decimal number.

Then, multiply by 100%.

$\frac{3}{4} = 0.75$

$= 0.75 \times 100\%$

$= 75\%$

> To multiply by 100, move the decimal point two places to the right.

$\boxed{C}\ 3\ \boxed{\div}\ 4\ \boxed{\times}\ 100\ \boxed{=}\ 75.$

1. Write each fraction as a decimal number.

a) $\frac{1}{2}$ b) $\frac{2}{5}$

c) $\frac{7}{10}$ d) $\frac{1}{4}$

2. Show each fraction in #1 as a percent.

3. Write each fraction as a decimal number, and then as a percent.

a) $\frac{12}{16}$ b) $\frac{17}{20}$
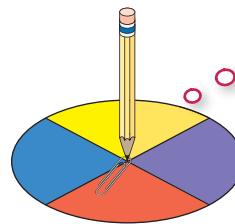
c) $\frac{9}{24}$ d) $\frac{18}{36}$

Identify Outcomes of a Single Event

An **outcome** is one possible result of an experiment.

You spin the spinner once. The possible outcomes are red, blue, yellow, and purple.

These outcomes are all **equally likely**. Each outcome has the same chance of occurring.

> All four sections of the spinner are the same size.

4. Identify all the possible outcomes for each event. Are the outcomes all equally likely?
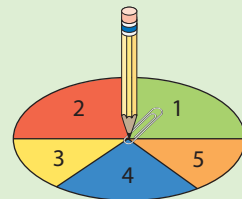
a) Toss a coin. b) Choose a marker.

5. Identify all the possible outcomes for each event. Are the outcomes all equally likely?

a) Roll a die. b) Spin the spinner.

6. Identify all the possible outcomes for each event. Are the outcomes all equally likely? Draw a diagram if it helps you.

a) A jar of craft beads contains 5 red, 4 black, 4 yellow, 6 orange, and 5 green beads. You choose one bead.

b) Mavis spins a wheel at the fair with equal sections labelled Try Again, $1, Candy, and Toy.

c) Stan comes to a fork in the road. There are three paths: Hiker's Lane, Ambler's Alley, and Wilderness Walk. He chooses one path.

d) A bag contains the letters of your first name. You choose one letter.

Read and Interpret Tally Charts

The **tally chart** shows the numbers of ducks Brian counted one afternoon at a Saskatchewan wetland.

Brian saw 9 Canvasbacks, 7 Redheads, 36 Mallards, 28 Pintails, and 14 Gadwalls.

He saw 9 + 7 + 36 + 28 + 14 = 94 ducks altogether.

Type of Duck	Tally
Canvasback	卌 IIII
Redhead	卌 II
Mallard	卌 卌 卌 卌 卌 卌 卌 I
Pintail	卌 卌 卌 卌 卌 III
Gadwall	卌 卌 IIII

卌 means 5

7. Grade 7 students were surveyed about their favourite pets. The tally chart shows the results of the survey.

Type of Pet	Tally
Cat	卌 卌 III
Dog	卌 卌 卌
Fish	卌 卌 I
Hamster	IIII
Bird	卌 II

a) What was the most popular type of pet?

b) What was the least favourite choice of pet?

c) How many chose cat as their favourite?

d) How many chose bird as their favourite?

e) How many students were surveyed altogether?

8. Callie and Brody create the following tally chart to keep track of the items they sell during a Scottish festival.

	Caps	Kilts
Friday	卌 卌 II	卌
Saturday	卌 卌 卌 卌	卌 III
Sunday	卌 I	II

a) How many items did they sell in total on Friday?

b) How many caps did they sell on all three days?

c) How many caps and kilts did they sell altogether?

d) On which day did they sell the most kilts?

e) Which item did they sell the least of on Friday?