



STUDENT \_\_\_\_\_ GROUP \_\_\_\_\_

INSTRUCTOR \_\_\_\_\_ DATE \_\_\_\_\_

## Math Lab Lesson #1 Classwork:

### Interpreting Percentages

#### WHAT TO DO:

- Watch the video and take notes on this Classwork sheet
- Pause and repeat any parts of the video that you want to review again. It's not a race!
- Answer any questions embedded in the video
- After watching the video, complete the Practice Problems.
- Create a few flashcards that relate to what you learned from the video and the Practice Problems.
- Then, go to the next video and repeat!

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#### ★ Video #1: Decimals and Percents:

Why do I need to shift the decimal point two spaces?

My Notes:



★ **Example:** Rewrite the following decimals as percentages:

0.57

2.15

0.035

0.006

★ **Example:** Rewrite the following percentages as decimals:

94%

0.2%

8.25%

349%

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My Notes:

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My Notes:



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➔ **Practice Problems: Decimals and Percents:**

1. Match the percentages on the left with decimals on the right

245%	0.0245
2.45%	0.00245
0.245%	0.245
24.5%	2.45

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0.0138	38%
0.038	138%
1.38	1.38%
0.38	3.8%

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2. Which expression means the same as “decrease the value of  $x$  by 14%”?



3. The cost of a car is  $x$  dollars. Write an expression for each of the following situations:

a) The price decrease by 20%

b) The price increases by 12.5%

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4. If the cost of a car is \$15,000, then calculate the new cost if:

a) The price decrease by 20%

b) The price increases by 12.5%

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5. Write an expression to represent the following:

The price  $x$  decreases by 20%, then increases by 12.5%

**STOP: DID YOU MAKE YOUR FLASHCARDS?**





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## ★ Video #2: Percents Describe Parts of Wholes

My Notes:

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★ **Example:** In a class of 32 students, 6 students do not own a cellphone. What percentage of students in this class own a cellphone?

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★ **Example:** 15% of Americans use ride-hailing apps such as Uber and Lyft. If the population of America is about 320 million, then approximately how many Americans use ride-hailing apps?

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★ **Example:** 20% of the bananas sold by a store every day are rotten. If 16 bananas are rotten, then how many bananas are sold every day?



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➔ **Practice Problems: Percents Describe Parts of Wholes**

1. Match the situation with the appropriate percentage or decimal. Note that some percentages and decimals will not be used.

	50%
There are 80 total animals in an animal shelter, and 50 of them are dogs.	6.25%
	0.625
\$62.50 was taken out of a wallet with \$125 in it	0.9%
	90%
9 out of 10 dentists agree	0.005

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2. In a school of 425 students, 380 passed their Algebra Regents exam. What percentage of students in this school failed their Algebra Regents exam?

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3. 25% of people in a small town believe in UFOs. If there are 320 people in this small town, then how many of them believe in UFOs?

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4. Solve for  $x$ :

$$\frac{20}{x} = 0.4$$

**STOP: DID YOU MAKE YOUR FLASHCARDS?**

