

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

Unit 1: Number Sense

Lesson 5: Working with Percents

What does a percent represent?



If you are given a percent, what do you do to express it as a decimal?

ex/ Write 65% as a decimal.

Now try 1%, 11.65%, and 102%!

If you are given a fraction, what do you do to express it as a percent?

ex/ You got 11 out of 15 on a quiz. Write your mark as a fraction and a percent.

List some examples of real life situations where you would need to be able to work with or interpret percent values.



### Finding a Percent of a Number

When we are trying to calculate things like after tax prices or discounts we need to be able to find a percentage of the given value. To do this, you need to:

- express the percent as a decimal,
- multiply it with the number.

Example: Find 42% of 150.

### Real Life Problems

1) Claire wants to buy a pair of jeans that are regularly \$89.99, but are on sale for 35% off.

a) Find the amount of the discount. (How much will she save?)

b) Find the sale price before tax.

c) Find the total price after tax. (Remember that HST is 13%)



2) Lucas bought a video game that was on sale for \$28.00. The original price was \$50. What was the percent of the discount?

3) Hassan is making lemonade from real lemons. The recipe says that he needs to combine the lemon juice with water so that 30% of the total volume is lemon juice. If he wants to make a 3.5 L batch of lemonade, how much lemon juice does he need to use?

4) Brooke paid \$42.38 after tax for a new sweatshirt that was on sale. The discount was 20%. What was the original price of the sweatshirt?

