

Lesson Al: Coin Expressions



This symbol means to stop and share your responses with your partner. If you have different responses, try to come to a consensus.

1. Play with the <u>Expression Exchange sim</u> for 5 minutes. Write down three questions or observations that you have.

2. These are all **coins**. What is the value of each coin?







3. is an example of an **expression.** Build two coin expressions that have the same total value and record below.

- 4. How do you know they have the same value?
- - 5. When you overlap two coins, sometimes the sim shows a yellow glow. What is happening?

LESSON A1:

Coin Expressions





6. When you overlap two coins, sometimes you *can't* get a yellow glow. What is happening?

7. Write two more expressions that are equivalent to ²(••••• and confirm using the sim.

$$2(\bigcirc + \triangle + \bigcirc) = 2\bigcirc + 2\triangle + 2\bigcirc$$

8. What is true about the values of your expressions?

Extension

9. Notice the toggle at the bottom of the screen. $\bigcirc \bigcirc X$ What does this toggle do?

Summary

- 10. Describe an **expression** in your own words.
- 11. Write another expression that is equivalent to