Cool Down

Lesson 8: Equal and Equivalent

Cool Down: Decisions about Equivalence

Decide if the expressions in each pair are equivalent. Explain or show how you know.

1. $x + x + x + x$ and $4x$

2. $5x$ and $x + 5$

Grade 6 Unit 6 Lesson 8
Learning goals:
-Draw a diagram to represent the value of an expression for a given value of its variable.
-Explain (in writing) that some pairs of expressions are equal for one value of their variable but not for other values.
-Justify (orally, in writing, and through other representations) whether two expressions are "equivalent".

Cool Down

Lesson 10: Different Options for Solving One Equation

Cool Down: Solve Two Equations

Solve each equation. Explain or show your reasoning.

$8.88 = 4.44(x - 7)$

$5\left(y + \dfrac{2}{5}\right) = -13$

Cool Down

Lesson 5: Solving Any Linear Equation

Cool Down: Check It

Noah tries to solve the equation $\frac{1}{2}(7x - 6) = 6x - 10$.

Check Noah's work. If it is not correct, describe what is wrong and show the correct work.

$$\frac{1}{2}(7x - 6) = 6x - 10$$
$$7x - 6 = 12x - 10$$
$$7x = 12x - 4$$
$$-5x = -4$$
$$x = \frac{4}{5}$$

Grade 8 Unit 4 Lesson 5
Learning goals:
-Calculate a value that is a solution to a linear equation in one variable, and explain (orally) the steps used to solve the equation.
-Create an expression to represent a number puzzle, and justify (orally) that it is equivalent to another expression.
-Justify (orally) that each step used in solving a linear equation maintains equality.