

All pgs together

Name:

Date:

Hour:

6.EE.B.6 Review for the Common Assessment I

Standard 6.EE.6: Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.

- I can recognize that a **variable** can represent an **unknown number**, or, depending on the scenario/situation, any number in a specific set.
- I can relate **variables** to a context.
- I can write **expressions** when solving a real-world or mathematical problem.

Find the equation(s) that match this statement:

Sue is driving to her friend's house and then home again. It is 5 miles from her house.

How many trips? (2) 5 miles \times 2 trips (d)
 $5(2) = d$ $2(5) = d$ $2 \neq 5$ $5 \neq 2$ $5+5=d$ $2+2=d$

Chris is working for her father. She works on Tuesday, Wednesday and Thursday, and earns the same amount each day. If she earns \$9.00, which equation shows how much she earns each day? 3 days total \$9 \$9/3 days \$3/day

$9 = n/3$ $9 + 9 + 9 = n$ $9/3 = n$ $3/9 = n$ $n + n + n = 9$ $3n = 9$

Standard 6.EE.4: Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them). For example, the expressions $y + y$ and $3y$ are equivalent because they name the same number regardless of which number y stands for.

- I can recognize when two **expressions** are **equivalent**.
- I can prove (using various strategies) that two **expressions** are **equivalent** no matter what number is substituted.

Which expressions are equivalent to $2(x^2 + 6)$?

$x^2 + 6 + x^2 + 6$ $2x^2 + 12$

$2 * x + 2 * 6$

$2x^2 + 6$

$2x^2 + 12$

$x^2 + x^2 + 6 + 6$

Which expressions are equivalent to $8y^2 + 2y^2 + 4y^2$?

$14y^2$

$10y^2 + 4y^2$

$7y + 7y$

$7y^2 + 7y^2$

$13y^2 + y^2$

$7y^2 + 7y$