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EXPRESSIONS AND EQUATIONS (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).

 Which pair of expressions is equivalent

- a) 6(8x) and 14x
- b) 6(8x) and 48x
- c) 6x + 8x and $14x^2$
- d) 6x + 8x and 48x

- a) 15x + 12y
- b) 3x + y + 2x + 2y
- c) 8x + y + 2x + 7y
- d) 25x + 16y

- a) 3k for k=6
- b) 3 + k for k = 15
- c) $\frac{k}{3}$ for k = 6
- d) k 10 for k = 28

4. Dana's Custom Necklaces charges x dollars to make a custom necklace, y dollars to ship the necklace, and \$8 to insure the necklace. The expression 4x + 4y + 32 + x + y represents the total cost of making, shipping, and insuring 4 necklaces, and making and shipping 1 necklace without insurance. Write the expression in simplified form.

$$5(4x + 6y + 4z) + 4(x - 2z)$$

- Simone wrote 20x + 30y + 20z
- Lennox wrote 6(4x + 5y + 2z)
- Daniele wrote 8x + 6y + 2z

Which, if any, of the three students wrote an expression that is equivalent to Ms. Mclean's expression?

EXPRESSIONS AND EQUATIONS (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.

- The new building in the financial district is 245 feet taller than the clock tower. Let h represent the height of the clock tower. Write an expression for the height of the new building?
- 2. Which situation can be represented by the expression 2.5x?
 - a) the total cost of an item that is x dollars more than \$2.50
 - b) the area of a rectangle with side lengths 2.5 and x
 - the amount of change when \$2.50 is used to pay for an item costing x dollars
 - d) the number of square feet in each lot when 2.5 acres is partitioned into x equal sections
- In the last soccer game, Brandon scored 2
 points more than one third of his team's total
 points. Let n represent the number of points
 Brandon's team scored. Write an expression
 for the number of points Brandon scored.
- A music website charges its members a onetime fee of \$29 and a monthly rate of \$5. Let m represent the number of months. Write an expression for the total amount paid after m months.

5. In the diagram of a quadrilateral below, the variables represent the lengths of the sides, in centimeters. Write an expression using the variables a and b that could be used to find the perimeter of the quadrilateral. If a = 12 and b = 9 what is the perimeter of the quadrilateral?

