Name _____

33 134060029_3

Kelly saves $5 every week. Which expression represents the amount of money, in dollars, Kelly will save in w weeks?

A $5 + w$

B $5 - w$

C $5w$

D $\dfrac{5}{w}$

42 134060018_4

Which two expressions are equivalent for any value of y?

A $3(3y + 3)$ and $6y + 6$

B $3(3y + 3)$ and $9y + 6$

C $9(y + 3)$ and $12 + 9y$

D $9(y + 3)$ and $27 + 9y$

allowed

44 134060024_2

Which equation has the solution $x = 2$?

A $2x - 3 = 19$

B $3x + 2 = 8$

C $4x - 4 = -4$

D $5x + 1 = 10$

allowed

50 124060610_3

Which expression is equivalent to the expression below?

$$g + g + g + g + g + g$$

A $6 + g$

B g^6

C $6g$

D $\dfrac{g}{6}$

57 Find the value of the expression.

$$24\frac{3}{5} + 4^3 \times \left(8\frac{1}{5} - 2\right)$$

Show your work.

Answer _____

60   To convert a temperature from degrees Celsius to degrees Fahrenheit, the temperature in degrees Celsius is multiplied by 1.8, and then 32 is added to the product.

Write an expression that can be used to convert a temperature from degrees Celsius, *C*, to degrees Fahrenheit, and then use that expression to convert 25 degrees Celsius to degrees Fahrenheit.

Show your work.

Answer _____ degrees Fahrenheit

62 Michelle makes jewelry boxes containing drawers of equal size. The numbers of drawers in three different jewelry boxes and the corresponding total volumes of the drawers are shown in the table below.

JEWELRY BOXES

Number of Drawers	Total Volume (cubic inches)
2	5
3	7.5
4	10

Write an equation for the relationship between the number of drawers in the jewelry box, d, and the total volume of the drawers in the jewelry box, V. Use your equation to determine the number of drawers in a jewelry box with a total volume of 17.5 cubic inches.

Show your work.

Answer _____ drawers

calculators allowed

64 Jorge bought a crate of floor tiles for $95.94. The crate had 6 boxes of floor tiles. Each box contained 20 floor tiles.

Write and solve an equation to determine the cost per box, *b*. Then write and solve a second equation to determine the cost per tile, *t*, to the nearest cent.

Show your work.

Answer $_____ per box

$_____ per tile

calculators allowed

Primary CCLS: 6.EE,7

Solve real-world and mathematical problems by writing and solving equations of the form x + p = q and px = q for cases in which p, q and x are all nonnegative rational numbers.

Secondary CCLS: None
Statewide Average Points Earned: 1.11 out of 3