

Name _____

Date _____

Class _____

Evaluating Expressions HW

Evaluate the expressions using the Order of Operations.

1. $6^3 + 7 \times 4$

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

Evaluate each expression with the given value of the variable(s).

3. $2^3 + \frac{4m}{2}$ when $m = 2$

4. $6c^2 - 5d + 8$ when $c = 5$ and $d = 4$

Write an expression for each description and evaluate the expression with the given value of the variables.

5. 16 divided by the sum of x and 4 when $x = 2$

6. 8 less than the product of 6 and z when $z = 7$

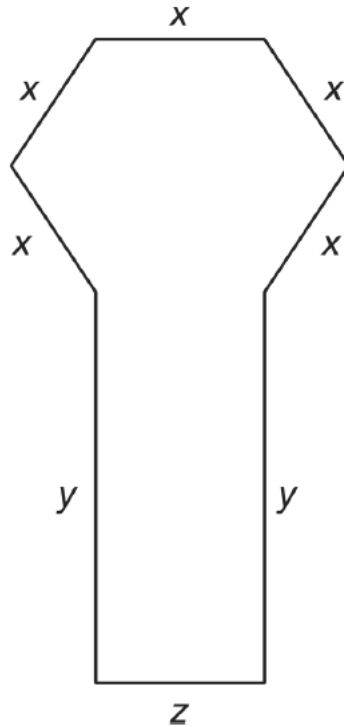
7. The formula below is used to convert a temperature in degrees Celsius, C , to degrees Fahrenheit, F .

$$F = 1.8C + 32$$

The high temperature in a mountain city was 15°C . What was the high temperature in degrees Fahrenheit?

8. (Multiple choice) Which situation can be represented by the expression $1.3x$?
- A. The total cost of an item that is x dollars more than \$1.30
 - B. The area of a rectangle with side lengths 1.3 and x
 - C. The amount of change when \$1.30 is used to pay for an item costing x dollars
 - D. The number of square feet in each lot when 1.3 acres is partitioned into x equal sections.

9. (Multiple choice) Which expression represents the perimeter of the figure below?



- A. $5x + 2y$
 - B. $x + y + z$
 - C. $5x + 2y + z$
 - D. $(5 + 2 + 1)(x + y + z)$
10. Julissa buys a special pass for \$20.00 to ride any ride at the carnival for the day. Julissa is at the carnival for h hours. Write an expression in terms of h that represents the cost of a special pass per hour. Then, find the cost of the special pass per hour when Julissa spends 9 hours at the carnival.