

Unit 2 Lesson 1

Writing Equations

1. Write a sentence for the equation $2z - 1 = 5$.

1 less than 2 times z is the same as 5.

2. Write a sentence for $15 = 4u^2 + 2$.

15 is equal to 4 times the square of u plus 2.

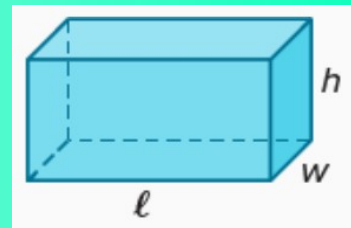
3. Write a sentence for $3(y + 1) = 12$.

3 times the sum of y and 1 is 12.

4. Which sentence or sentences work for $\frac{3}{2}(r - t^2) = 32$

- a. Three halves times the quantity r minus t squared equals thirty-two
- b. Three halves times r minus t quantity squared equals thirty-two.
- c. Three halves times r less t squared is the same as thirty-two.
- d. Three halves times the difference of r and t squared equals thirty-two.

5. Write a sentence for the formula for the surface area of a rectangular prism $S = 2lw + 2lh + 2wh$. Then interpret the equation in context of the situation.



The surface area is 2 times the length times the width plus 2 times the length times the height plus 2 times the width times the height.

6. Write a sentence for the formula for converting a Fahrenheit temperature to a Celsius temperature, $C = \frac{5}{9}(F - 32)$. Then interpret the equation in the context of the situation.

Celsius can be found by five-ninths times the difference of the Fahrenheit temperature and 32.