

1 Chapter 1 Test, Form 3

SCORE _____

- Evaluate $\frac{x^2 - y^2}{-1(x^2 + 2y^2)}$ if $x = 4$ and $y = -2$.
- Evaluate $(n - v)^2 + 3v^2$ if $n = 5$ and $v = -2$.
- Determine whether the statement is *sometimes*, *always*, or *never* true. Explain your reasoning.
If a and b are real numbers, then $-|a + 2b|$ is negative.
- The formula for the volume of a cylinder is $V = \pi r^2 h$, where r is the radius of the base and h is the height of the cylinder. Find the volume of a cylinder with a radius of 1.2 inches and a height of 3 inches. Use 3.14 for π .
- Name the sets of numbers to which each number belongs.
a. -4 b. $\sqrt{15}$ c. 0 d. $\frac{3}{4}$ e. 2
- Simplify $\frac{3}{8}(16x - 8) + \frac{2}{3}(15y + 12)$.
- Write a verbal expression to represent the algebraic expression $4(n^2 + 2n)$.

For Questions 8–11, solve each equation.

- $-6(n - 8) = 4(12 - 5n) + 14n$
- $2|3x - 5| = 14$
- $A = \frac{1}{2}h(a + b)$, for a
- $|y - 8| + 7 = 3$
- Define a variable, write an equation, and solve the problem.
The width of a rectangle is 3 meters more than one-fourth its length. The perimeter is 10 meters more than twice its length. Find the length and width.

- -3
- 25
Sometimes;
if $a = -2b$,
the value of the
- expression is 0.**
- 13.5648 in^3
- a. Z, Q, R
b. I, R
c. W, Z, Q, R
d. Q, R
e. N, W, Z, Q, R
- $6x + 10y + 5$
four times the sum of the
square of a number and
- twice the same number
- all real numbers**
- $\left\{-\frac{2}{3}, 4\right\}$
- $a = \frac{2A}{h} - b$
- 0
 $\ell = \text{length};$
 $2\left[\ell + \left(\frac{1}{4}\ell + 3\right)\right] =$
 $2\ell + 10;$
length: 8 meters
- width: 5 meters**

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**United States. Department of the
Army**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the United States Department of the Army text.

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