

## Radical or Square Root:



How to get it on the calculator



Lets Try Some!

$$\sqrt{16} \quad \sqrt[4]{16}$$

$$2\sqrt{64} \quad 4 \quad 2\sqrt{64}$$

16

$$\sqrt{38} \quad 6.2$$

$$\sqrt[4]{38} \quad 6.16$$

$$6.164414003$$

↑↑

$$4\sqrt{65} \quad 4\sqrt[4]{65} \quad 32.24903099$$

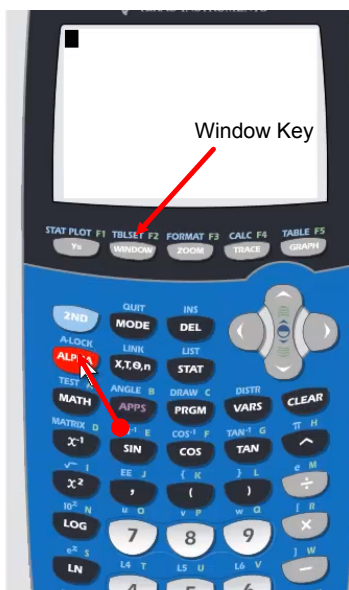
$$32.25$$

$$32.2$$

↑↑

# Absolute Value

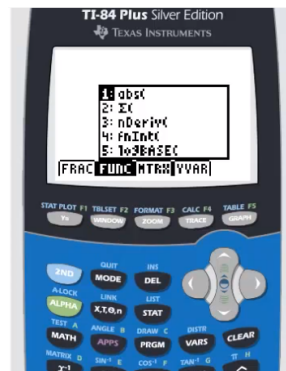
*distance from zero*



Step 1: Press Alpha and the Window Key



Step 2: Select option 1 for absolute value (abs.)



*Always positive*

Let's Try Some!

$|36|$

*36*

$|-14|$

*14*

$|-1.2|$

*1.2*

## Evaluating Expressions

In order to evaluate expressions, we substitute a number for each variable.  
*in parentheses*



Evaluate each expression when  $x = 3$ ,  $y = -4$ , and  $z = 6$ .

$$1) \sqrt{3x + y}$$

$$\sqrt{3(3) + (-4)}$$

$$-1$$

$$2) xy + yz$$

$$(3)(-4) + (-4)(6)$$

$$-36$$

$$3) y^2 - z^3$$

$$(-4)^2 - (6)^3$$

$$(-4)^2 - (6)^3$$

$$-200$$

$$4) |5x + 6y| + 5$$

$$|5(3) + 6(-4)| + 5$$

$$14$$

**Directions:** Evaluate each expression using the values below. Find your answer in the answer box. Shade it in. Two answers will not be used. Find the sum of the two numbers not used.

$$a = 4 \quad b = 8 \quad c = 2 \quad d = 7 \quad e = 3 \quad f = 9 \quad g = 10$$

1.  $ab + c$

2.  $5a + b^2$

3.  $7d - 2g$

4.  $bc - c^3$

5.  $da^2$

6.  $g(b + e)$

7.  $a + b(f + g)$

8.  $\frac{a+b}{3}$

$$\begin{array}{l}
 (10)(8+3) \\
 (10)((8)+(3)) \\
 110
 \end{array}$$



9.  $\frac{d-e}{a}$

10.  $e^2 - c^2$

11.  $abc$

12.  $b^2 - 4ac$

13.  $a + g(b - e)$

14.  $a^3 + b^3$

15.  $g(f - a + c)$

16.  $\frac{2g-b}{2}$

**Answer Box:**

What is the sum of the two numbers not used? \_\_\_\_\_

1	112	576	34	64	54	70	29	4
8	5	110	41	32	84	6	127	156



Tear off and complete the EXIT TICKET on the last page of this packet.

Hand it in for a grade BEFORE YOU LEAVE CLASS TODAY!



Name: \_\_\_\_\_

Score: \_\_\_\_/6

## EXIT TICKET

\*tear this page off and  
turn it in before you  
leave class today\*



Directions: Evaluate the following expressions below for the given values. Show all work.

$$x = 7 \quad y = -2 \quad z = 4$$

1.  $z + xy$

2.  $\sqrt{xz - 4y}$

## Attachments

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M&M.pdf