

Warmup

1. Simplify: $(15)^2$

2. Simplify: $-16+t^2$ when $t=4$

3. $-4 + -6 =$ _____

$9 + -4 =$ _____

$-32 + -9 =$ _____

$-18 + 100 =$ _____

I. Simplifying Exponents with Signed Numbers

base^{exponent}

$(-9)^2$

$-(9)^2$

-9^2

6^2

$(-12)^2$

-14^2

$-(-13)^2$

$-(-11)^2$

-16^2

$-(-12)^2$

14^2

4. Simplify: $(-8)^2$

5. Simplify: -15^2

6. Simplify: $-(7)^2$

7.

II. Signed Numbers in Expressions with Exponents

base^{exponent}

$$4+(-9)^2$$

$$4-(9)^2$$

$$4-9^2$$

8. Simplify: $(-4)^2+16$

9. Simplify: $-20+12^2$

10. Simplify: $-(5)^2-20$

11.

III. Signed Numbers in Algebraic Expressions with Exponents

Simplify $(-a)^2-b$ when $a=4$ and $b=8$

Parentheses

Exponents

Multiplication or Division

Addition or Subtraction

12. Simplify t^2 when $t=-10$

13. Simplify: $-x^2+y$ when
 $x=-13$ and $y=-31$

14.

IV. Practice

15	16
17	18
19	20
21	22

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