nit 2: Integers Name:				
Lesson 7: Square Roots		Hour:		
©s 2.7			7,	
Square a Numbe	9r		V V	
What does it mean to sq	uare a number?			by itself
	neeringa agastu - astas as a pada gurumud agas	with	ared is often written a little 2 called an onent: 3²	
	the state of the s			*
Can we square a negative (-3)2	ve number? What $= (-3)(-3)$	at about -5 squared 3)=9	17 you will get a because near	positive # pative. • negative:
Words	Exponent	Multiplication	Product (Perfect S	iquare)
1 squared	2	0	Service Sections of the Contract	24 19 19 19 19 19 19 19 19 19 19 19 19 19
2 squared	2	2-2	4	
3 squared	2	3.3	\boldsymbol{q}	
4 squared		- V / 1 / 1		
5 squared		- 2	But the second	
6 squared				17.00
7 squared			The second secon	
8 squared		1 24 /12		
9 squared		1		
10 squared		1		

Square Roof

11 squared 12 squared

The opposite of squaring a number is taking the square root of the number.

√ this is called the: "Square root"

 $\sqrt{9} = \sqrt{3 \cdot 3} = 3$

Examples:

1)
$$\sqrt{25} = \sqrt{5.5} + 5$$

2)
$$-\sqrt{36} = -\sqrt{6.6} = -\sqrt{6}$$

3)
$$-\frac{\sqrt{81}}{\sqrt{9}} = -\frac{\sqrt{9.9}}{\sqrt{3.3}} = -\frac{9}{3} = -3$$

4)
$$\sqrt{\frac{16}{25}} = \sqrt{\frac{4.4}{5.5}} = \frac{4}{5}$$

5)
$$\sqrt{225} - \sqrt{144} = \sqrt{15.15} - \sqrt{12.12} = 15 - 12 = 3$$

Estimating) a Square Root:

1)
$$\sqrt{47} \approx 6.8$$

$$^{2)}$$
 $-\sqrt{90} \approx 9.5$

3)
$$\sqrt{17} \approx 4.2$$

4)
$$-\sqrt{32} \approx -5.6$$

Assignment: Square Root Worksheet ALL

Modified: Square Root Worksheet EVENS