Math 8

Date:_____

1 Understanding Integers

Integers are numbers that include positive and negative numbers. This is useful for representing real life values

Write an integer for each statement

	a) \$12 spent	b)drop of 13 °C	c)35 cm longer	d) 2 floors up
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An Integers Value

It is important to know which integers are greater or less than others Working with positive integers

Complete the statement with <,>, or =

1226 158 5382 102	6113
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Now we will add in negative values. Negative values are always less than positive and the larger a negative number the smaller it's value. Complete the statement with <,>, or =

Ex.

-12_-8 -23_8 0_-15

Try:		
1128	-32 48	-32 22

6 8	1128	1128
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Rounding integers

To Round, look to the left of the place you are rounding to. If the number is less than 5, then truncate it. If the			Less than 5 Round dow	m 3 4	5 or more Round up 5 6 7 8 9	
number is 5 or	more, then r	ound up.				
Rounding the in	nteger value	es to the ne	arest one	s, tens,	or hundreds	
2.45 Round to the near	rest one 8.	53			124.8	
Round to the near 2546	rest ten 13	383			5895	
Round to the near 2375	rest hundred 4518	7	/154		9247	

Adding integers

Both positive	Both negative	The first is negative	The first is positive
		and the second is	and the second is
		positive	negative
a) $(+3)+(+4)=$	b) $(-3)+(-4)=$	c) $(-3)+(+4)=$	d) $(+3)+(-4)=$



Note: if a number did not state if it is POSITIVE OR NEGATIVE,

Example: (-4) + 16 =

Try these...
a)
$$(-2)+(+3)$$
 b) $(-1)+(-5)$ c) $(+2)+(+7)$

d) (+4)+(-6) e) (-7)+2 f) (-12)+(-17)

Example (f), (-12)+(-17), the numbers are so large that it does not fit in the numberline above. So there is got to be an faster way of determining the solutions.

Rule: (+ integer) + (+ integer)

- Answer is always
- Add the number (without the sign)

Example (+37) + (+23) =

Rule: (- integer) + (- integer)

- Answer is always
- Add the number (without the sign)

Example (-41) + (-16) =

Rule: (- integer) + (+ integer) or (+ integer) + (- integer)

- Answer can be either _____ or _____
 Subtract the number (without the sign)
- The sign will be whatever that matches the largest number.

Try these... a) (-12)+(-24) b) (-21)+(+13) c) (+23)+(+23)

d)
$$(+44)+(-16)$$
 e) $(-37)+(+8)$ f) $(-12)+(+12)$