

Multiplying and Dividing Integers

	Rule	Example
Same Sign	The product of 2 integers with the same sign is positive .	$2 \times 4 = +8$ $(-6) \times (-3) = +18$
Different Sign	The product of 2 integers with different signs is negative .	$4 \times (-5) = -20$ $(-9) \times 6 = -54$
Zero	The product of any integer and 0 is 0.	$-2 \times 0 = 0$

Multiplication Examples:

1) $-3(-12) = 36$

2) $-24(0) = 0$

3) $-7(10) = -70$

4) wxy when $w = 2, x = -3,$ and $y = 4$

$(2)(-3)(4) = -24$

5) $9(-11) = -99$

6) $0(-500) = 0$

7) $-4(-10) = 40$

- An even # of negatives = Positive
- An odd # of negatives = Negative

Division Examples:

1) $-56 \div -8$

7

2) $100 \div (-10)$

-10

3) $x \div 3$ when $x = -3$

$-3 \div 3 = -1$

4) $-24 \div 3$

-8

5) $-60 \div -12$

5

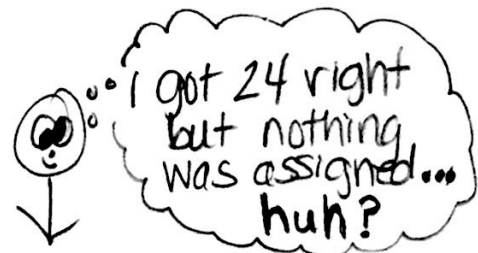
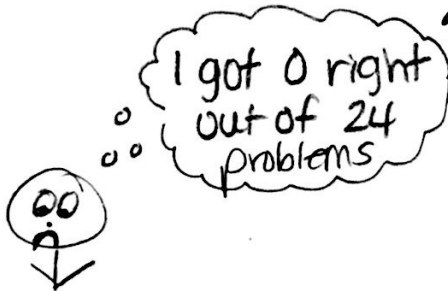
6) $-16 \div w$ when $w = -4$

$-16 \div -4 = 4$

	As the Dividend	As the Divisor
Using Zero in Division	$0 \div N$ 0 divided by any number is 0.	$N \div 0$ numbers cannot be divided by 0.
	$23 \overline{)0}$ $0 \div 23$ $\frac{0}{23}$	$0 \overline{)56}$ $56 \div 0$ $\frac{56}{0}$

"Zero"

"undefined"



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Modified: Page 44 #3 - 10, 12 - 22 (evens)