

Name _____

Date _____

Mr. Tallman

Math 7

Homework #6 - Multiplying and Dividing Integers

1) When we are multiplying or dividing two integers with the same sign, the product/quotient is always **positive**/negative. (circle one)

2) When we are multiplying or dividing two integers with different signs, the product/quotient is always **positive**/negative. (circle one)

3) Find the product or quotient. Be sure to show all work where necessary.

a) $-6 \cdot (-3)$ 18	b) $\frac{25}{-5} = -5$	c) $36 \div (-12)$ -3
d) $\frac{-9}{-3} = 3$	e) $-7(3)(2)$ \downarrow $-21(2)$ -42	f) $-9 + (-4 \cdot 10)$ \downarrow $-9 + (-40)$ -49

4) Evaluate the following when $x = -48$ and $y = 6$

a) $\frac{x}{y} = \frac{-48}{6} = -8$	b) $\frac{(x+18)}{y} = \frac{-48+18}{6} = \frac{-30}{6} = -5$
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5) A submarine is diving from the water's surface at a rate of 90 feet per minute. What is the depth of the submarine after 7 minutes?

$$-90(7) = -630$$

630 ft. below Sea level.

6) Adriana lost 3 pounds per month after she began doing Pilates. At this rate, how much will she lose after 4 months?

$$-3(4) = -12$$

She lost 12 pounds after 4 months.

