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) $-6∙(-3)$ | b) $\frac{25}{-5}$ | c) $36÷(-12)$ |
| d) $\frac{-9}{-3}$ | e) $-7(3)(2)$ | f) $-9+(-4∙10)$ |

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

|  |  |
| --- | --- |
| a) $\frac{x}{y}$ | b) $\frac{x+18}{y}$ |

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?

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