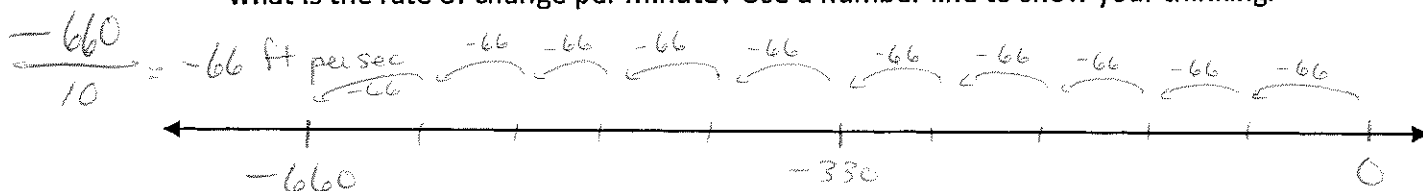


## Unit 2 Test Friday October 28, 2016 Multiply and Divide Integers

## Multiply and Divide Integers

$-144 \div 12$ -12	$(-8)(-7)$ 56	$90 \div (-3)$ -30
$(15)(4)$ 60	$-24 \div (-8)$ 3	$6(-13)$ -78
$(-96) \div 8$ -12	$\frac{-51}{-17}$ 3	$-4(5 + 3)$ -32

1. A submarine started its decent on the surface of the water. 10 minutes have gone by and now it is 660ft below the surface of the water. If it descended at a constant rate, what is the rate of change per minute? Use a number line to show your thinking.



2. The hockey team lost their last 4 games by a total of 12 points. Find the average number of points they lost by. Show your answer as an integer relative to the opposing team's score.

$$\frac{-12}{4} = -3 \text{ three less}$$

3. The temperature will drop 21 degrees over the next 7 hours. If it drops at the same every hour, what was the hourly rate of change?

$$\frac{-21}{7} = -3 \text{ degrees per hour}$$

Write an expression to represent the problem and simplify: \_\_\_\_\_

4. Tim bought 8 boxes of golf balls. Each box holds 3 golf balls. How many golf balls did Tim buy?

$$8(3) = 24$$

5. Write a real world scenario for the expression  $(-3)4$ .

I owe three dollars to four different people.

~~When~~

## Order of Operations

Evaluate each expression.

1)  $[9 - \{15 \div 5\}^2] \cdot 4$

$$[9 - (3)^2] \cdot 4$$

$$[9 - 9] \cdot 4$$

$$0 \cdot 4$$

$$0$$

3)  $[(-9) \div \{(-84) \div 7\}] \cdot (-3)^2$

$$[-9 \div -12] \cdot (-3)^2$$

$$[-9 \div -12] \cdot 9$$

$$[-0.75] \cdot 9$$

$$-6.75$$

5)  $[(-8) - \{(-3)^3 - (-3)\}] \cdot (-5)$

$$[-8 - \{-27 - (-3)\}] \cdot (-5)$$

$$[-8 - \{-27 + 3\}] \cdot (-5)$$

$$[-8 - \{-24\}] \cdot (-5)$$

$$[-8 + 24] \cdot (-5)$$

$$16 \cdot (-5)$$

$$-80$$

2)  $[(-10) - \{(-3)^3 - (-3)\}] \cdot (-4)$

$$[-10 - \{-27 - (-3)\}] \cdot (-4)$$

$$[-10 - \{-27 + 3\}] \cdot (-4)$$

$$[-10 - \{-24\}] \cdot (-4)$$

$$[-10 + 24] \cdot (-4)$$

$$14 \cdot (-4)$$

$$-56$$

4)  $[(-11) - \{3^3 - 3\}] \cdot (-5)$

$$[-11 - \{27 - 3\}] \cdot (-5)$$

$$[-11 - 24] \cdot (-5)$$

$$-35 \cdot (-5)$$

$$175$$

6)  $[7 - \{2^2 - 2\}] \cdot 4$

$$[7 - \{4 - 2\}] \cdot 4$$

$$[7 - 2] \cdot 4$$

$$5 \cdot 4$$

$$20$$

Convert Fraction into decimals

$\frac{5}{8} = .625$	$\frac{7}{12} = .58\bar{3}$
$\frac{2}{9} = .\bar{2}$	$\frac{1}{5} = .2$