When **multiplying only** OR **dividing only**   Class:_____

- ➢ **SAME signs** give a _____ answer

$(+4)(+8) =$ ____	$(-3)(-5) =$ _____
$\dfrac{(+40)}{(+5)} =$ ____	$\dfrac{-42}{-7} =$ ____

- ➢ **DIFFERENT signs** give a _____ answer.

$(-4)(+8) =$ ____	$(-3)(5) =$ _____
$\dfrac{(-40)}{(+5)} =$ ____	$\dfrac{-42}{+7} =$ ____

- ➢ An **EVEN number of Negative Integers multiplied togethe**r give a _____ answer.

- ➢ An **ODD number of Negative Integers multiplied together** give a _____ answer.

- ➢ GIVEN: $(-35) \div (+7) = (-5)$. Identify:

  A) DIVISOR_____   B) DIVIDEND_____   C) QUOTIENT_____

- ➢ **Addition statement   written as a multiplication statement:**
  (-4)+(-4)+(-4)+(-4)+(-4) =_____

Properties of Integers

Example	Property
(-4) x 0 = 0	
$(-6)(+3) = (+3)(-6)$	
(-19) x 1 = (-19)	
(-2)[(+3) +(-4)] = (+2)(+3) + (+2)(-4)	

1. Evaluate:

A) $(-6)^2 =$ _____	B) $(-5)(-7) =$ _____	C) $(+4)(-9) =$ _____	D) $(+2)(-7) =$ ____
E) $(+6)(+8) =$ _____	F) $\frac{-72}{-9} =$ _____	G) $\frac{+120}{+10} =$ _____	H) $\frac{0}{-9} =$ _____
I) $\frac{+54}{-6} =$ _____	J) $\frac{-54}{+8} =$ _____	K) $(-3)(+5)(-2) =$ ___	L) $(-4)(-5)(-3) =$ ____
M) $(-64) \div (+8) \div (-4) =$ _____			

2. The product of two integers is 16. The sum of the same integers is -10. What are the integers?

3. The temperature gets colder by an average of 10°C every two hours. What is the change in temperature which occurs after 8 hours is:

4. George lost $120 over 6 days on the stock market. What is the daily decrease in price?

5. A submarine dives at a rate of 20 meters per minutes for 10 minutes. What is the distance the submarine travels?

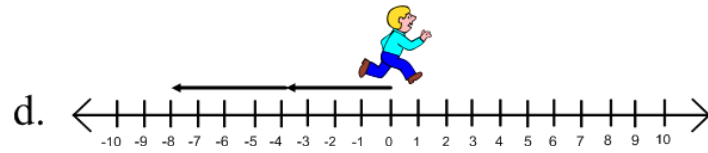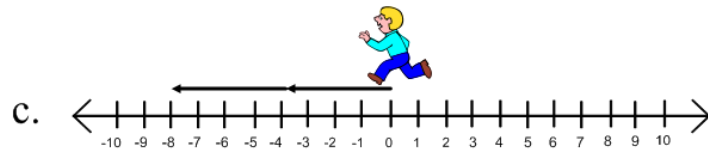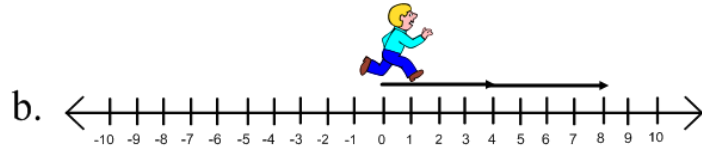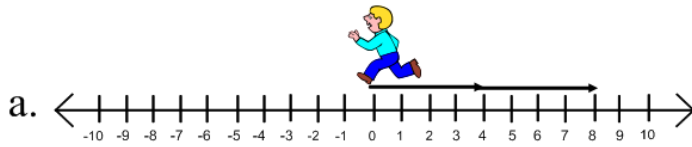6. Model using either TILES or NUMBER LINE each of the following: Explain your answer.

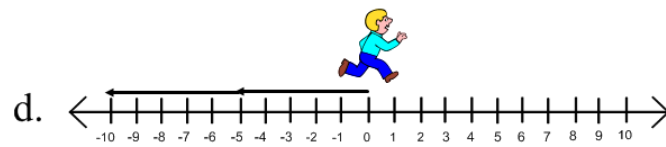A) (+4)(-7)   C) (-3)(+4)
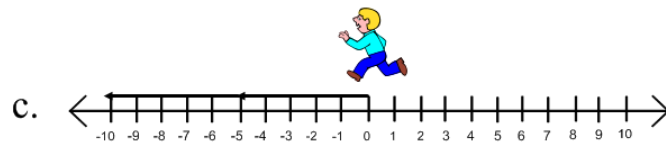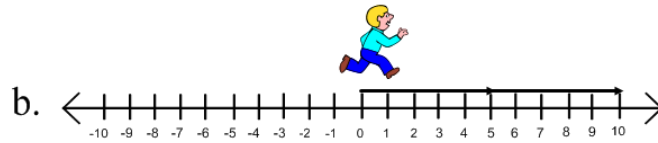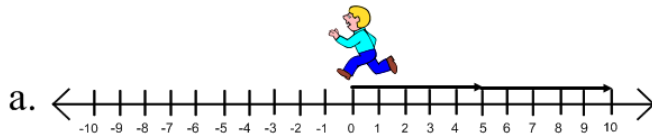
B) (+3)(+6)   D) (-2)(-3)

7. Identify the multiplication of integers shown below.

a.

b.

c.

d.

8. Identify the division of integers shown by each number line.

a.

b.

c.

d.

9. According to BEDMAS, identify the operation which must be performed first.   [4 marks]

Integer Expression	Operation to perform first
A) $(-2) - (+5) \div (-3)$	
B) $\dfrac{(-42)}{(+1) - (-6)}$	
C) $10 + [(-5) - (-6)]$	
D) $(-12) + (-2)^2 - (+3)$	
E) $(-48) \div (+3) \div (-8)$	

10. Evaluate each expression.

A) $+8 + (-2) \times (-4)$

C. $20 \div (-4) + (+3) \times (-4)$

B) $\dfrac{(+3) + (-15)}{(-7) - (-1)}$

D. $10^2 \div [(+12) + (-7)]$

11. Blaine drove from Deer Lake to St. John's at an average speed of 100 km/h. After 5 hours of driving Blaine was still 150 km away from St. John's. Determine how far apart Deer Lake and St. John's are from one another.