Name: $\qquad$

1) Model the following using tiles and state the answer
a) $(+6) \times(-3)$
b) $(-4) \times(-5)$
c) $(-7) x(+3)$
2) Sketch a number line that represents a) (+3) $\times(-8)$
b) $(+7) x(+5)$
3) Write a multiplication or division sentence for the following situations:
a) Kim spends $\$ 60$ for $\$ 7$ week. How much is spent in total?
b) A diver makes 3 descends of 20 meters below sea level. What is his final depth?
c) The temperature of a chemical increases 2 degrees each hour. If the total change is +16 degrees then how long did it take for this change to occur?
d) Sarah earns a total of $\$ 144$ from selling books at $\$ 9$ each. How many books did Sarah sell?
4) Write the repeated addition as multiplication
a. $(-2)+(-2)+(-2)+(-2)$
b. $(+3)+(+3)(+3)+(+3)+(+3)+(+3)+(3)$
5) Use the distribution property (Box method) to answer the following
a. $(-14) \times(+26)$
b) $(-74) \times(-52)$
c) $(+18) \times(+30)$
d) $(+40) \times(-46)$
6) Write a division equation for the following (Hint: Write a multiplication first)

7) For the following division statement write multiplication statement
a. $(-72) \div(+9)=(-8)$
b) $(+42) \div(+6)=(+7)$
8) For each of the following find the next 3 numbers in the pattern and state the pattern rule (Use a calculator)
a. $+1,+7,+49,+343$, $\qquad$ , $\qquad$
$\qquad$
b. $-2,+6,-18$, $\qquad$
$\qquad$
$\qquad$
$\qquad$
c. $-8,+8,-8,+8$, $\qquad$ ,
9) Using the numbers $-10,+7,0,-8,+9,-11$ find the following:
a) The greatest product
b) The least product
10) Use the rules for the following (WATCH the operations)
a) $(-60) \div(-5)$
b) $(+14)+(-3)$
c) $(-63)-(+12)$
d) $(-9) \times(-7)$
e) $(-7)+(-22)$
e) $(+27) \div(-3)$
f) $(-16)-(-14)$
g) $(+25)+(+14)$
e) $(-12) \times(-7)$
f) $(-51)-(+14)$
g) $(-7)+(-8)$
h) $(-15) \times(-2)$
i) $(-18)+(-6)$
ј) $(-72) \div(-8)$
k) $(-26)-(+8)$
11) Find the 2 integers that satisfy the following (Hint list factors of the product)
a) A product of +36 but give a sum of -13
b) Multiplies to give - 24 but adds to +2
