Name: _____                    Hour

**Study Guide Quiz 3 – 7th grade**

1.) The difference between 2 integers is -10. Which of the expressions could represent the subtraction problem?

a.) -12 – 2     b.) 2- 12     c.) 8 – (-2)     d.) -5 -5     e.) -12 – (-2)

$-12 + -2$    $2 + -12$    $8 + 2$    $-5 + -5$    $-12 + 2$
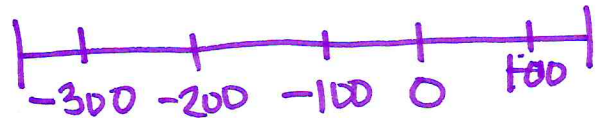$-14$          $-10$        $10$       $-10$       $-10$

*(handwritten right)* * Because they are subtraction → Keep, change, flip

2.) Tim's bank account balance is shown by the table according to week.

*Part A*

Which statement is true about Tim's bank balances?

| Week | Balance |
|------|---------|
| 1    | $100    |
| 2    | $-300   |
| 3    | $-200   |

*(handwritten number line)* -300 -200 -100 0 100

a.) Tim's bank account changed from Week 1 to Week 2 by $-200  ✗

b.) Tim's bank account changed from Week 1 to Week 3 by $-100  ✗

c.) Tim's bank account changed from Week 2 to Week 3 by $-100  ✗

d.) Tim's bank account changed from Week 1 to Week 3 by $-300  (circled)

*(handwritten cloud)* * make a number line *

*Part B*

Combine the balance of the 3 weeks. What is the total?

Show your work.

Answer: _____

3.) Let x represent a positive number and let y represent a negative number.

Tell whether each statement is True or False     $x = (+)$   $y = (-)$

*(handwritten)* Trick

a.) (x – y) could be negative        True    **False** (circled)
$(+) - (-)$
$(+) + (+)$
$(+) + (+) = (+)$

b.) (y – x) cannot be positive        **True** (circled)    False
$(-) - (+)$
$(-) + (-)$
$(-) + (-) = (-)$

c) x + y could be positive            **True** (circled)    False
$(+) + (-)$
$(+) + (-) =$ both

d.) y + x must be negative            True    **False** (circled)
$(-) + (+)$
$(-) + (+) =$ both

*(handwritten left)* Keep Change Flip