Name: _____
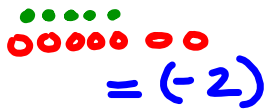
Math 7
Unit 2: Integers Test REVIEW SHEET

September

Let one shaded tile represent +1 and one unshaded tile represent −1.

1)   You have 15 unshaded tiles and 7 shaded tiles. What additional tiles do you need to model +2?

need 10 shaded

2)   Model   (+5) + (-7) with tiles.

= (-2)

3) What <u>sum</u> is modeled by 20 positive tiles and   11 negative tiles?

(+20) + (-11)
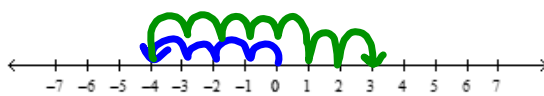= (+9)

4).Find the sum.
   (-12) + (-7)

(-19)

5) . Add.
   (+17) + (-3)

(+14)

6) .Model the addition equation $(-4) + (+7)$ modeled by the number line.
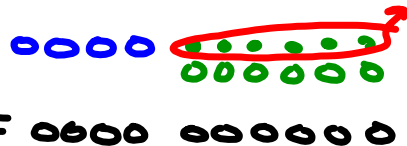
+3

7)   Sam owns a small business. He made a profit of \$18 on Saturday and lost \$15 on Sunday. Find the total profit or
        loss for the weekend.

$$(+18) + (-15) = (+3)$$ **\$3 profit**

8).Model with tiles   a) $(+8) - (+3)$ $= (+5)$ b) $(-4) - (+6)$
                                                                        $= (-10)$

$$= \bullet\bullet\bullet\bullet\bullet$$

9)   .Subtract.
     a) $(-15) - (+7)$ b) $(-14) - (+3)$ c) $(+4) - (-2)$ d) $(+17) - (-15)$

$$(-15) + (-7)$$ $(-14) + (-3)$ $(+4) + (+2)$ $(+17) + (+15)$

$$(-22)$$ $= (-17)$ $(+6)$ $= (+32)$

10) .Bryan gets on an elevator at the 28th floor. The elevator goes up 11 floors then down 6 floors.
At what floor does it finally stop?

$$(+28) + (+11) + (-6)$$

$$(+39) + (-6)$$

$$(+33)$$

On the final floor 33.

11) .Rewrite using addition.
a) $(+17) - (+6)$ b) $(-2) - (-3)$

$$(+17) + (-6)$$ $$(-2) + (+3)$$

$$(+11)$$ $$(+1)$$

12)   Evaluate. (Use rules)
a) $(-15) - (+9) - (-2)$ b) $(+21) + (-2) - (+5)$

$$(-15) + (-9) - (-2)$$ $$(+19) + (-5)$$

$$(-24) + (+2)$$ $$(+14)$$

$$(-22)$$

More Practice

1. **Using tiles** Add the following using TILES:

   a. $(+5) + (+9) =$ __+14__

   b) $(-8) + (-2) =$ __-10__

   c) $(-7) + (+4) =$ __-3__

2. **Using Tiles** SUBTRACT the following:

   a. $(+10) - (-4) =$ __+14__

   b) $(-7) - (-2) =$ __-5__

   c) $(+2) - (+5) =$ __-3__

3. Use addition rule to add the following: (Do not have to show work)

   a. $(+14) + (-2) =$ __(+12)__

   b) $(-15) + (-10) =$ __(-25)__

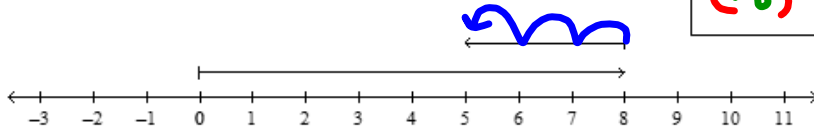4. **Use the SUBTRACTION RULE** and evaluate the following: (Show the rule under the subtraction question).

   a. $(+17) - (-14) =$ _____

$$(+17) + (+14)$$
$$= (+31)$$

   b) $(-8) - (+3) =$ __-11__

$$(-8) + (-3)$$
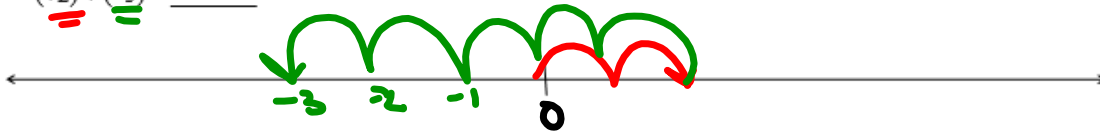
6. Write the addition equation modeled by the number line.

Answer:
$(+8) + (-3) = (+5)$

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←—+——+——+——+——+——+——+——+——+——+——+——+——+——→
  −3   −2   −1   0   1   2   3   4   5   6   7   8   9   10   11
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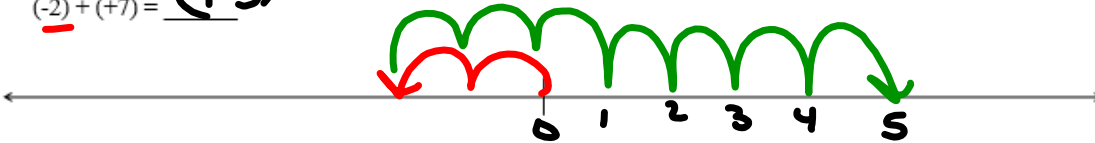
7. Use a number line to add.

$(+2) + (-5) =$ **−3**

8. Use a number line to add.

$(-2) + (+7) =$ **(+5)**

9. Copy and complete.
$(-5) + \square = (-1)$ What integer goes in the $\square$? **+4**

10. Write the opposite of each integer.

a)   +10   **− 10**

b)   −12   **+ 12**

11. Is each statement **always true**, **sometimes true**, or **never true**?
Provide examples to support your answers.
a)   The sum of a negative integer and a positive integer is negative.   **Sometimes**

Example) $(+9) + (-1)$ $(+8)$
$(-8) + (+2) = (-6)$