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 **sum** is modeled by 20 positive tiles and 11 negative tiles?

(+20) + (-11)

= (+9)

4). Find the sum.

(-12) + (-7)

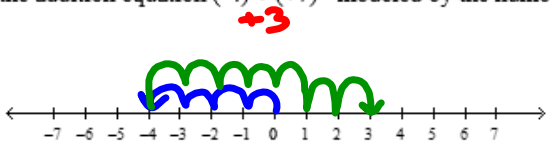
(-19)

5). Add.

(+17) + (-3)

(+ 14)

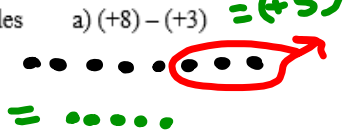
6) .Model the addition equation (-4) + (+7) modeled by the number line.



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)



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b) (-4) – (+6) = (−10)

= 0000 000000

9) .Subtract.

a) (−15) – (+7)

(−15) + (−7)

(−22)

b) (-14) – (+3)

(-14) + (-3)

= (−17)

c) (+4) – (-2)

(+4) + (+2)

(+6)

d) (+17) – (-15)

(+17) + (+15)

= (+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)

(+17) + (−6)
(+11)

b) (-2) – (-3)

(-2) + (+3)
(+1)

12) Evaluate. (Use rules)

a) (-15) – (+9) – (-2)

(-15) + (-9) − (-2)
(-24) + (+2)
(-22)

b) (+21) + (-2) – (+5)

(+19) + (-5)
(+14)

More Practice

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

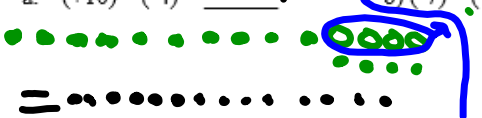
a. (+5) + (+9) = +14

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

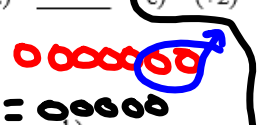
c) (-7) + (+4) = -3

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

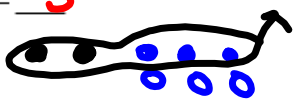
a. (+10) – (-4) = +14



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)

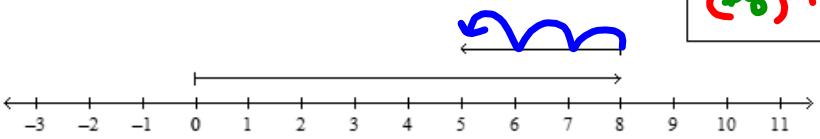
= (+31)

b) (-8) – (+3) = -11

(-8) + (-3)

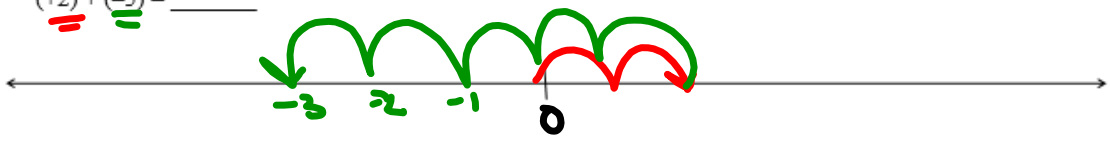
6. Write the addition equation modeled by the number line.

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



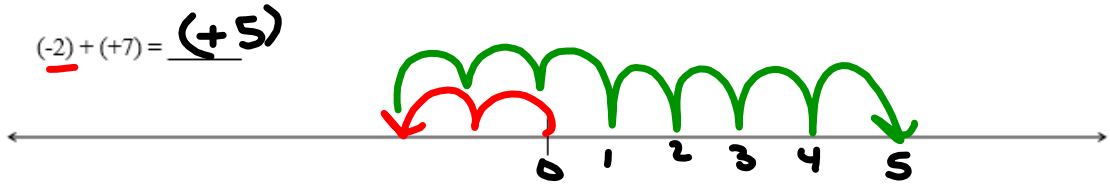
7. Use a number line to add.

(+2) + (–5) = -3



8. Use a number line to add.

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



9. Copy and complete.
(-5) + □ = (–1) What integer goes in the □? +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)