

Name: _____

Math 7

Unit 2: Integers Test REVIEW SHEET

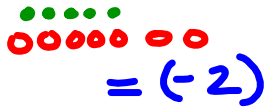
September

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?



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



- 3) What sum is modeled by 20 positive tiles and 11 negative tiles?

$$\begin{aligned} & (+20) + (-11) \\ & = (+9) \end{aligned}$$

- 4) Find the sum.

$$(-12) + (-7)$$

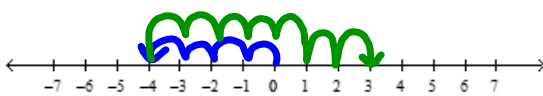
$$(-19)$$

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

$= \dots$

b) $(-4) - (+6) = (-10)$

$= \dots$

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?

$$\begin{array}{r}
 (+28) + (+11) + (-6) \\
 \quad \downarrow \quad \downarrow \\
 (+39) + (-6) \\
 \quad \downarrow \\
 (+33)
 \end{array}$$

On the
final floor
33.

- 11) Rewrite using addition.

a) $(+17) - (+6)$

$$\begin{array}{r}
 (+17) + (-6) \\
 \quad \downarrow \quad \downarrow \\
 (+11)
 \end{array}$$

b) $(-2) - (-3)$

$$\begin{array}{r}
 (-2) + (+3) \\
 \quad \downarrow \quad \downarrow \\
 (+1)
 \end{array}$$

- 12) Evaluate. (Use rules)

a) $(-15) - (+9) - (-2)$

$$\begin{array}{r}
 (-15) + (-9) - (-2) \\
 \quad \downarrow \quad \downarrow \quad \downarrow \\
 (-24) + (+2) \\
 \quad \downarrow \\
 (-22)
 \end{array}$$

b) $(+21) + (-2) - (+5)$

$$\begin{array}{r}
 (+21) + (-2) - (+5) \\
 \quad \downarrow \quad \downarrow \quad \downarrow \\
 (+19) + (-5) \\
 \quad \downarrow \\
 (+14)
 \end{array}$$

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).

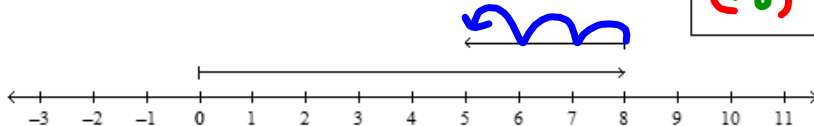
a. $(+17) - (-14) = \underline{\hspace{2cm}}$
 $(+17) + (+14)$
 $= (+31)$

b. $(-8) - (+3) = \underline{-11}$
 $(-8) + (-3)$

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

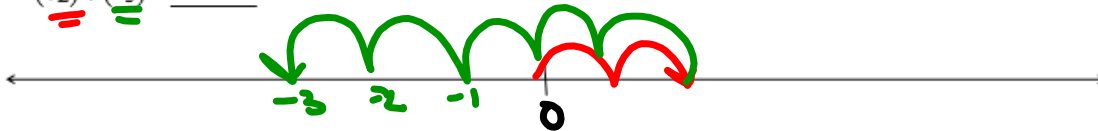
Answer:

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



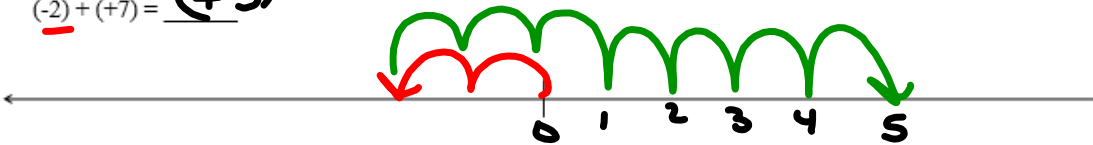
7. Use a number line to add.

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



8. Use a number line to add.

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



9. Copy and complete.

$$(-5) + \square = (-1) \quad \text{What integer goes in the } \square? \quad +4$$

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