Math 7 Unit 2 Assignment

$$\frac{}{50} = \quad \%$$

Name: _____

Selected Response: Put the letter of the best response in the space provided.

1.)	
2.)	
3.)	
4.)	
5.)	
6.)	
7.)	
8.)	
9.)	
10.)	
11.)	

1.   What is the value of the integer being modeled?

⊕ ⊕ ⊕ ⊕ ⊕
⊖ ⊖
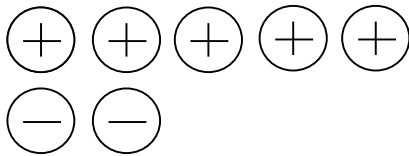
□ positive
⊠ negative

A) -5

B) -2

C) +2

D) +3

2.   You have 3 positive tiles and you use all of them.
You want to model −4.
How many negative tiles do you need?

A) 1   □ □ □

B) 3   ▨ ▨ ▨ ▨ ▨ ▨ ▨

C) 4

D) 7

3.   Sue earns $27 and then spends $18. Which integer represents her profit or loss?
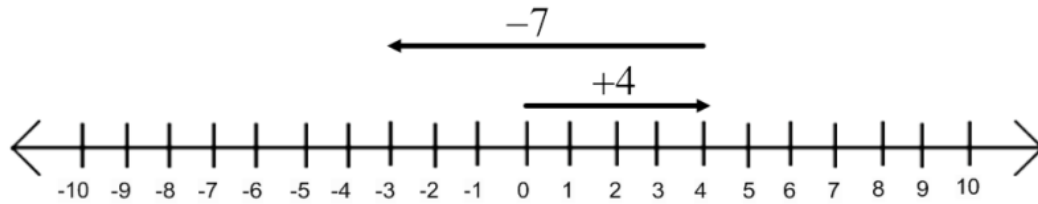
A) −11

B) −9 $(+27)+(-18)$

C) +9 $= +9$

D) +11

4.   What is the addition equation modeled on the number line?

$$-7$$

$$+4$$

A) $(-7) + (-4) = -11$

B) $(-7) + (-3) = -10$

C) $(+4) + (-7) = -3$

D) $(+4) + (-3) = +1$

5.   In the morning the temperature was $-5°C$.
        By 2 o'clock the temperature had increased by 12°C.
        What was the temperature, in°C, at 2 o'clock?

A) -12

B) -7 $(-5) + 12 = 7°C$

C) +7

D) +12

6.   Which pair of integers has a sum of -32?

A) -12 and -20 $(-12) + (-20)$

B) -4 and +8 $= -32$ means the answer of addition

C) +2 and -36

D) +17 and + 15

7. Which statement about two integers is correct?

A) the sum of two positives is negative ✗

B) the sum of two negatives is negative ⟵ (circled)

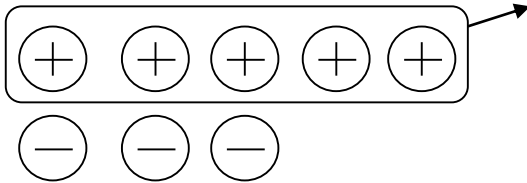C) the sum of two opposite integers is positive ✗ *Sum of opposite integers is 0.*

D) the sum of a negative and positive is positive ✗ *Sometimes true.*

8. Which subtraction expression is modeled by the integer counters?

A) (−3) − (+5)

B) (−3) − (+2)

C) (+2) − (+5) (circled)

D) (+5) − (−3)

9. Which statement is equivalent to (−6) − (−15)?

A) (-6) + (-15)

B) (-6) + (+15) (circled)

C) (+6) + (-15)

D) (+6) + (+15)

10. Evaluate (-7) − (+12) − (+5)

A) −24 (circled)   (-19) − (+5)
                        -24

B) −19

C) +10

D) +27

(-7) + (-12) = -19

(-19) + (-5) = -24

11. An airplane is cruising at an altitude of 3500 m and a submarine is submerged at a depth 975 m. What is the difference in m, of the elevation between these two modes of transportation?

A) 1632

B) 2525

C) 4475

D) 5450

Subtraction

$$(+3500) - (-975)$$

$$= 3500 + (+975$$

$$= 4475m$$

$$\begin{array}{r} 3500 \\ +975 \\ \hline 4475 \end{array}$$
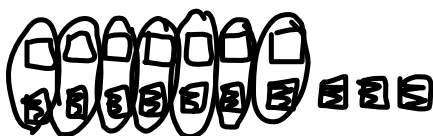
12.   Model the integer -5 two different ways.   [2 marks]
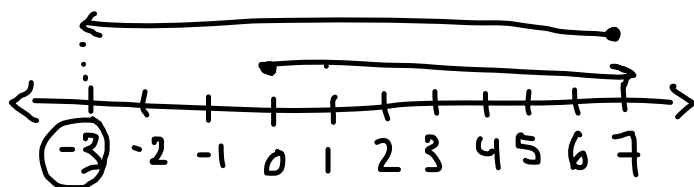
13.   Use a model of your choice (integer counters, number lines, etc.) to add or subtract.
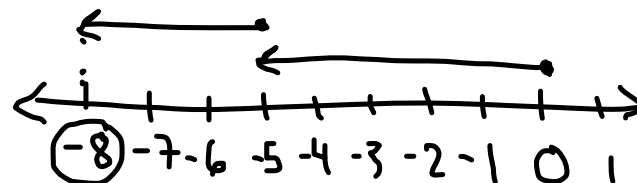   State your answer.   [12 marks]
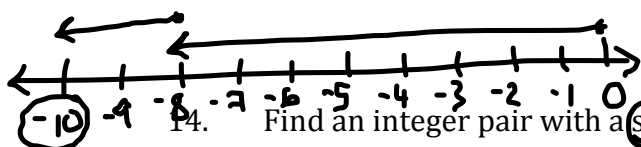
A) $(+7) + (-10) = -3$

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

C) $(-8) - (+2) = -10$

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

D) $(-3) - (-6) = +3$

$(-3) + (+6) = +3$
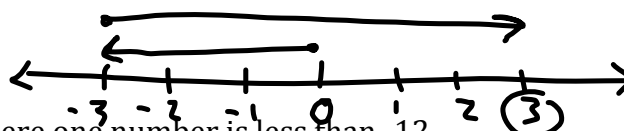
14.   Find an integer pair with a sum of -25 where one number is less than -12.
       Explain how you know.   [3 marks]

answer of addition

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

Answers may vary.

#'s less than -12:
$-13, -14, -15, \ldots$

15. Rick has a debt of $76.
    He earns $42 on each of three days and spends $59 on a skateboard.
    How much money or debt does he now have? Explain.   [3 marks]

earnings
$42 \times 3 = 126$

$(-76) + 126 + (-59)$

$50 + (-59)$

-9

$\begin{array}{r} 126 \\ -76 \\ \hline 50 \end{array}$

Rick has $9 debt.

16. When you subtract two negative integers, do you always get a negative difference?
    Use examples to explain how you know.   [3 marks]

$(-5) - (-1)$

$= (-5) + (+1)$

$= -4$

$(-1) - (-5)$

$= (-1) + (+5)$

$= +4$

No, the answer is NOT always negative.

17. Evaluate.   [16 marks]

A) $(-35) + (-14)$

-49

B) $(+6) + (-17)$

-11

C) $(-15) + (+7)$

-8

$\begin{array}{r} 27 \\ -18 \\ \hline 9 \end{array}$

D) $(-14) - (+5)$

$= (-14) + (-5)$

$= -19$

E) $(-12) - (-18)$

$= (-12) + (+18)$

$= +6$

F) $(+18) - (+27)$

$= (18) + (-27)$

$= -9$

e) $(-3) + (-13) + (+4)$

$(-16) + (+4)$

-12

f) $(-16) - (-5) + (+14)$

$= (-11) + (+14)$

$= 3$

$(-16) + (+5)$

-11