Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

**7.NS.1a**

\_\_\_\_\_\_1. Altitude above sea level is given in positive values and below sea level is given in negative

values. Which situation describes a hiker in Death Valley stopping at an altitude of 0 feet?

(2015)

A. The hiker starts at −10 feet then increases altitude by 10 feet.

B. The hiker starts at −10 feet then decreases altitude by 10 feet.

C. The hiker starts at 10 feet then increases altitude by 10 feet.

D. The hiker starts at 0 feet then decreases altitude by 10 feet.

\_\_\_\_\_\_2. The initial balance of a savings account was $275. After which transactions will the balance of

the savings account be the same as the initial balance. (2017) no calculator

1. a withdrawal of $232 followed by a deposit of $132
2. a deposit of $278 followed by a withdrawal of $278
3. a withdrawal of $115 followed by a deposit of $312
4. a deposit of $205 followed by a withdrawal of $317

\_\_\_\_\_\_3. Which situation results in a final value of zero? (2018)

1. The temperature after a decrease of 5°F from a temperature of -5°F.
2. The height of an airplane after taking off from ground level and rising 1,000 feet.
3. The amount of money received in change after making a $10 purchase with a $20 bill.
4. The distance above sea level after increasing 24 meters from a depth of 24 meters below seas level.

\_\_\_\_\_4. From 12:00 midnight to 6:00 a.m., the temperature decreased by 12°C. If the original

temperature was 12°C, which expression can be used to represent this situation? (2019)

A. 12 -12 B. 12 +12 C. 12 – ( - 12) D. -12 + ( - 12)

\_\_\_\_\_5.Which situation results in a final value of zero? (2019)

A. the overall change in temperature when the temperature goes from -10°F to 10°F

B. the total profit made when a person buys an item for $2.25 and then sells the item

for $2.25

C. the overall change in altitude of a hot air balloon after rising 21 kilometers from

sea level

D. the total distance a person travels when he bikes 3.1 miles to school and then bikes

3.1 miles back home

**7.NS.1b**

\_\_\_\_\_1. Point P is shown on the number line below. (2017) no calculator



The distance between point Q and point P is 6 units. Which number could represent point Q?

A. -9 1/2 B. 1 1/2 C. 2 1/2 D. 10 1/2

**7.NS.1c**

\_\_\_\_\_1. Which expression is equivalent to 4 – (-7) ? (2016)

A. 7 + 4 B. 4 – 7 C. -7 – 4 D. - 4 + 7

\_\_\_\_\_2. Which expression has the same value as 59.2 – 84.7 ? (2017) no calculator

A. 84.7 - 59.2 B. - 84.7 + (- 59.2) C. 59.2 - ( - 84.7) D. 59.2 + (- 84.7)

\_\_\_\_\_3. At midnight, the temperature was -8°F. At noon, the temperature was 23°F. which expression

represents the increase in the temperature? (2018)

1. -8 – 23 B. |-8| – 23 C. -8 – |23| D. |-8 – 23|

\_\_\_\_\_4. What value will make the equation true? -2.1 – \_\_\_\_\_\_\_\_\_\_ = - 1 ½ (2019)

1. 3.6 B. 0.6 C - 0.6 D. -3.6

**7.NS.1d**

\_\_\_\_\_\_1. What is the value of the expression below? (2013)

+ +

1. 0 B. C. D. 2

\_\_\_\_\_\_2.Yesterday, the temperature at noon was 11.4°F. By midnight, the temperature had

decreased by 15.7 degrees. What was the temperature at midnight? (2015)

A. −4.3 °F B. −11.4 °F C. −15.7 °F D. −27.1 °F

\_\_\_\_\_\_3. What is the value of the expression below? (2016) (no calculator)

+ 0.4 + ( - )

A. - 1.5 B. - 0.7 C. 0.8 D. 2.3

\_\_\_\_\_4. Which expression can go in the blank to make the equation true? (2018)

-4.5 + 4.4 + ? = 0

1. -6.7 + 6.8 B. -6.7 + ( - 6.6) C. 7.2 + ( -7.2) D. 7.2 + ( -7.3)

5. Graham’s monthly bank statement showed the following deposits and withdrawals:

−$25.20, $52.75, −$22.04, −$8.50, $94.11

If Graham’s balance in the account was $47.86 at the beginning of the month, what was the account

balance at the end of the month? (2014)

***Show your work.***

***Answer*** $***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***