

Quarter 1 Week 3

Math 7/7+

Due 7/28/17

Show work OR write an explanation for each problem. NO WORK = NO CREDIT

1. Which statement best models the equation below?

$$-7 + 7 = 0$$

- A. A girl earned \$7 per hour working 7 hours.
- B. A train backed up 7 feet and then moved forward 7 feet.
- C. A cup contained 7 ounces of water after 7 ounces were poured out from the cup.
- D. A person walked 7 feet forward, stopped, and then walked another 7 feet forward.
2. Which situation does not describe a final value of 0?
- A. A balloon rose to a height of 700 feet above the ground. It then dropped 475 feet and then dropped another 225 feet.
- B. The temperature at 10 a.m. was 2° F. During the next 3 hours it rose 8 degrees only to drop down 10 degrees.
- C. After the first round in a game Percy's score was -13. He then scored 6 points in the next round and an additional 7 points in the third round.
- D. Chelsea's bank account had \$400 at the beginning of the week. She deposited \$200 on Monday, withdrew \$550 on Tuesday and withdrew an additional \$150 on Wednesday.
3. Ben records the temperature in degrees Celsius each morning. At 8 a.m. the temperature was 3 degrees below zero. It rose 3 degrees by 10 a.m. Which equation shows the change in temperature from 8 a.m. to 10 a.m.?
- A. $3 + 3 = 6$ B. $-3 + 3 = 0$ C. $-3 + 3 = -6$ D. $-3 - 3 = -6$

4. Which expression is equivalent to 0?

- A. eight less than ten minus two C. twenty-two minus forty plus nineteen
- B. negative eleven plus seven plus five D. negative seventeen minus two plus fifteen

5. The level of an aquifer is recorded daily in feet. Which table shows quantities combined to result in zero change in the aquifer level?

A.

Day	Change
1	+ 0.9
2	- 0.3
3	- 0.2
4	- 0.4

B.

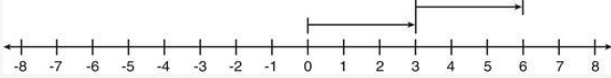
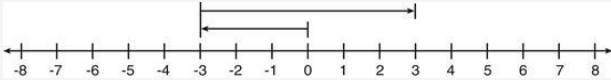
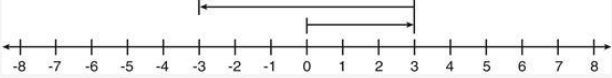

Day	Change
1	+ 1.6
2	+ 0.5
3	- 0.7
4	+ 1.4

C.

Day	Change
1	- 0.8
2	- 0.5
3	- 0.3
4	0.0

D.

Day	Change
1	- 0.4
2	+ 0.3
3	+ 0.3
4	+ 0.2

6. What is the sum of $3x - 6$ and its opposite?
- A. 0 B. 1 C. $6x$ D. $6x - 12$
7. What does the value of $-8 - (-2)$ represent on the number line?
- A. a value that is 2 units from -8 in the positive direction C. a value that is 2 units from -8 in the negative direction
 B. a value that is 2 units from 8 in the positive direction D. a value that is 2 units from 8 in the negative direction
8. Which two integers are 7 units away from the number 5 on a number line?
- A. -2 and 2 B. -2 and 7 C. -7 and 7 D. -2 and 12
9. What is the opposite of x if $x = -\frac{3}{4}$?
10. Which numbers are additive inverses of each other?
- A. 5 and $\frac{1}{5}$ B. -5 and 5 C. 5 and $-\frac{1}{5}$ D. -5 and -5
11. Which number line below correctly represents $3 - 6$?
- A. 
- B. 
- C. 
- D. 
12. Which expression must be equal to $m - n$?
- A. $-m + -n$ B. $-m + n$ C. $m + -n$ D. $m + n$
13. Death Valley has an elevation of 282 feet below sea level. Townes Pass Summit has an elevation of 4956 feet above sea level. Which integer represents the difference in elevation from Death Valley to Townes Pass Summit?
- A. 4674 feet C. 5238 feet
 B. 4683 feet D. 5247 feet
14. Mr. Grant deposited two checks, valued at \$27.45 and \$122.90, into his checking account last week. Then, he wrote three checks for \$14.99, \$32.49, and \$43.85 out of this account to pay his monthly bills. What is the total change of Mr. Grant's checking account after all checks are processed?
15. What is the value of the expression $7\frac{3}{5} + -8\frac{4}{7}$?