

09/27/15, 7.NS.1 Study Guide

Student:

Class:

Date:

Instructions

Adding and Subtracting Rational Numbers Study Guide - MUST show work in your bfn for homework credit.

1. What is the value of $-4.86 - 5.32 - (-12.05)$?

- A. -22.23
- B. 12.51
- C. 1.87
- D. -11.59

2. At the beginning of the week, a stock was \$64.29 per share.

- On Monday, the stock lost \$0.31 per share.
- On Tuesday, it gained \$0.22 per share.
- On Wednesday, the stock gained \$0.05 per share.
- On Thursday, it lost \$0.17 per share.

On Friday morning, what was the price of the stock per share?

- A. \$63.54
- B. \$64.08
- C. \$64.50
- D. \$65.04

3. Use the equation below to answer the question.

$$x + \frac{5}{8} = 0$$

What is the value of x in the given equation?

A. -5

B. $-\frac{5}{8}$

C. 5

D. $\frac{5}{8}$

4. The price of one share of a stock increased by \$2 on Wednesday and then decreased by \$8 on Thursday. Which expression shows the change in the price of a share of the stock in two days?

A. $8 + -2$

B. $2 + -8$

C. $2 - (-8)$

D. $8 - (-2)$

5. What is the value of $-9\frac{2}{3} + (-11\frac{5}{6})$?

A. $-21\frac{1}{2}$

B. $-2\frac{1}{6}$

C. $2\frac{1}{6}$

D. $21\frac{1}{2}$

6. What value of x makes the number sentence true?

$$-3 + x = -3$$

- A. 0
- B. 1
- C. 3
- D. 6

7. Mary starts a hike up Crowders at an altitude of 825 feet and climbs to an altitude of 1,625 feet. She then hikes back down the mountain. Which equation could represent the change in altitude during her hike?

- A. $1,625 \text{ ft} - 825 \text{ ft} = 800 \text{ ft}$
- B. $825 \text{ ft} + 1,625 \text{ ft} = 2,450 \text{ ft}$
- C. $825 \text{ ft} + 800 \text{ ft} - 800 \text{ ft} = 825 \text{ ft}$
- D. $825 \text{ ft} + 800 \text{ ft} + 800 \text{ ft} = 2,425 \text{ ft}$

8. Which situation does not describe a final value of 0?

- A. A balloon rose to a height of 525 ft above the ground. It then dropped 495 ft and then dropped another 30 ft.
- B. The temperature at 9 am was -6°F . During the next 3 hours it rose 8 degrees only to drop down 2 degrees.
- C. After the first round in a game Sam's score was -18. He then scored 5 points in the next round and then an additional 13 points in the third round.
- D. Kevin's bank account had \$400 at the beginning of the week. He deposited \$200 on Monday, withdrew \$500 on Tuesday and withdrew an additional \$50 on Wednesday.

9. Which combination of events results in a 0 effect to the situation?

- A. Ashley owes her mom \$10, and she borrows \$10 more from her.
- B. Chris scored 12 points during a game and then had 6 points deducted.
- C. Wendolyn withdraws \$92 from an account which previously had a balance of \$92.
- D. Tyler stands on the 30-yard line on a football field and then moves forward 30 yards.

10. Which is the additive inverse of $\frac{9}{10}$?

A. $\frac{10}{9}$

B. $-\frac{9}{10}$

C. $\frac{9}{10}$

D. $-\frac{10}{9}$

11. Point X starts at -8 on a number line.

Point X then goes through a series of moves:

- -1 unit
- +7 units
- -4 units
- +8 units

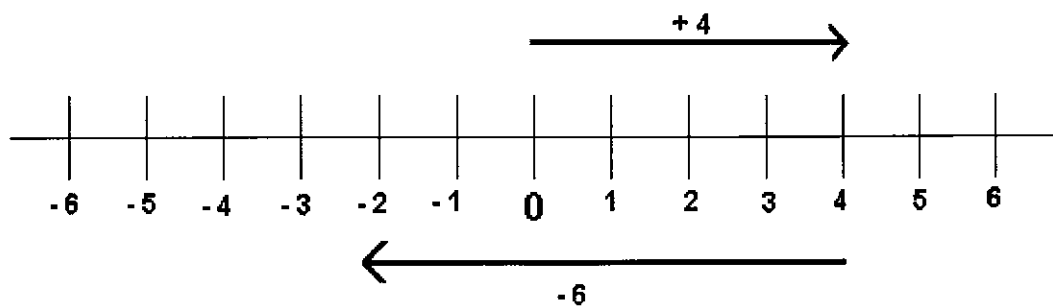
A. 8

B. 12

C. -18

D. 2

12. A number line is shown.



Which equation is **best** represented by the number line model?

- A. $4 + -6 = 10$
- B. $4 + -6 = -2$
- C. $-4 + -6 = -10$
- D. $4 + -6 = 2$

13. What is the opposite of $\frac{4}{7}$?

- A. $\frac{7}{4}$
- B. $\frac{4}{7}$
- C. $-\frac{4}{7}$
- D. $-\frac{7}{4}$

14. Which equation is true?

A. $62 + -62 = 124$

B. $62 + -62 = -124$

C. $\frac{10}{19} + -\frac{10}{19} = 0$

D. $\frac{10}{19} + -\frac{19}{10}$

15. What is the distance from -18 to -3 on a number line?

A. -21

B. -15

C. 15

D. 21

16. Martin is on a cliff at 393 feet above sea level overlooking a lake. He kicks a rock off the cliff and it lands 52 feet below sea level. How many feet did the rock fall?

A. 445 feet

B. 341 feet

C. -445 feet

D. -341 feet

17. What is the value of the expression below?

$$-9 - 12 - (-7)$$

A. -4

B. -14

C. -28

D. 4

18. What is the value of the expression $-\frac{8}{3} + 1\frac{1}{3} - \frac{2}{3}$?

A. $4\frac{2}{3}$

B. $-4\frac{2}{3}$

C. -3

D. -2

19. What is the value of the expression below?

$$13\frac{3}{4} - 21\frac{5}{6}$$

A. $35\frac{7}{12}$

B. $8\frac{1}{12}$

C. $-8\frac{1}{12}$

D. $-35\frac{7}{12}$

20. What is the value of the expression below?

$$7.15 + ^{-}1.35 - 7.5$$

A. 1.7

B. -1.7

C. -13.3

D. 13.3

21. What is the value of $-4.19 - 1.82 - 5.03$?

- A. 2.66
- B. -2.37
- C. -11.04
- D. -2.66

22. What is the value of $-5\frac{1}{6} + 8\frac{3}{4} - 6\frac{2}{3}$?

- A. $-11\frac{5}{6}$
- B. $-3\frac{1}{3}$
- C. $3\frac{14}{24}$
- D. $-3\frac{1}{12}$

23. Nick spent 5 hour raking leaves for 4 lawns. Nick spent $2\frac{1}{4}$ hours raking the first lawn, $1\frac{1}{2}$ hours on the second lawn, and $\frac{3}{4}$ of an hour on the third lawn. How many hours did Nick spend raking the fourth lawn?

- A. $\frac{1}{2}$
- B. $4\frac{1}{2}$
- C. $4\frac{1}{4}$
- D. $\frac{3}{4}$

24. The highest elevation in the United States is Mount McKinley at 20,320 feet above sea level. The lowest elevation in the US is Badwater in Death Valley at 282 feet below sea level. What is the difference between these two US elevations?
- A. 20,038 feet
 - B. -20,038 feet
 - C. 20,602 feet
 - D. -20,602 feet
25. Anna bought a pair of jeans for \$29.50 and a shirt for \$17.99 at American Eagle. She gave the sales clerk three \$20 bills. How much change did she receive?
- A. -\$27.49
 - B. \$27.49
 - C. \$12.51
 - D. \$8.49