

Unit 1: Rational Numbers

Directions: Choose the letter of the best answer.

1. Which fraction can be expressed as a terminating decimal? (17.NS.2)

- a. $\frac{1}{6}$
- b. $\frac{3}{8}$
- c. $\frac{2}{3}$
- d. $\frac{1}{9}$

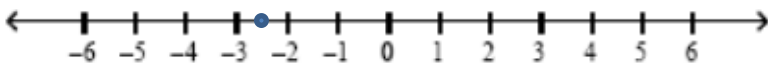
2. What fraction can be expressed as a repeating decimal? (17.NS.2)

- a. $\frac{1}{9}$
- b. $\frac{1}{4}$
- c. $\frac{3}{8}$
- d. $\frac{2}{10}$

3. Which shows the fraction $\frac{1}{3}$ as a decimal? (17.NS.2)

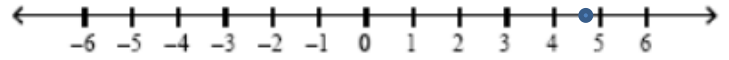
- a. $0.\overline{32}$
- b. 0.3
- c. $0.\overline{3}$
- d. $0.\overline{3}2$

4. Estimate the number that is represented on the number line. (53.T.NS.5)



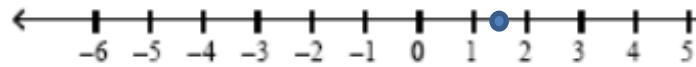
- a. -3.5
- b. -3.25
- c. -2.5
- d. -2.0

5. Estimate the number that is represented on the number line. (53.T.NS.5)



- a. $4\frac{1}{4}$
- b. $4\frac{3}{4}$
- c. 5
- d. $5\frac{1}{4}$

6. What is the opposite of the number represented on the number line?



- a. $2\frac{1}{2}$
- b. $1\frac{1}{2}$
- c. $-2\frac{1}{2}$
- d. $-1\frac{1}{2}$

7. An airplane is flying at 2000 ft. What rational number represents the elevation of the airplane?

- a. -2000 ft.
- b. $\frac{1}{2000}$
- c. 2000 ft.
- d. 20,000 ft.

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8. The temperature is 5 degrees below zero.

Which rational number represents the temperature? (52.T.NS.5)

- a. 5
- b. **|5|**
- c. $\frac{1}{5}$
- d. -5

9. Maria opened a bank account and made a deposit of \$20. What rational number represents her account balance? (52.T.NS.5)

- a. -20
- b. 20
- c. $\frac{1}{20}$
- d. **|20|**

10. A dolphin is swimming 25ft below sea level. What rational number represents his depth? (52.T.NS.5)

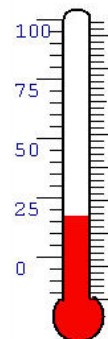
- a. 25
- b. $\frac{1}{25}$
- c. **|25|**
- d. -25

11. The valley at the bottom of the mountain range is 128 ft below sea level. What rational number represents the elevation of the valley? (52.T.NS.5)



- a. -128
- b. **|128|**
- c. $\frac{1}{128}$
- d. 128

12. What rational number represents the temperature shown on the thermometer? (52.T.NS.5)

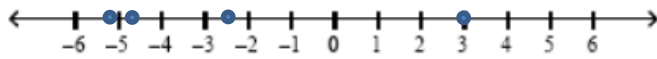


- a. -17
- b. 15
- c. 17
- d. 20

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13. Which inequality statement represents the values marked on the number line? (58.T.NS.7)



- a. $-5.25 > -2.5$
 b. $-0.25 < -1.5$
 c. $3 < -4.75$
 d. $-1.5 > -4.75$
14. On a number line, point R lies to the left of point S and point T lies to the left of point R . What can you conclude? (58.T.NS.7)

- a. $R < S < T$
 b. $R < T < S$
 c. $T < R < S$
 d. $T < S < R$

15. Compare $4\frac{1}{4}$, 4.5 , and $4\frac{2}{3}$. (58.T.NS.7)

- a. $4\frac{1}{4} > 4.5 > 4\frac{2}{3}$
 b. $4\frac{1}{4} < 4.5 < 4\frac{2}{3}$
 c. $4\frac{2}{3} < 4.5 < 4\frac{1}{4}$
 d. $4.5 > 4\frac{1}{4} > 4\frac{2}{3}$

16. Which statement is not true? (58.T.NS.7)

- a. $\frac{1}{2} < 60\% < 0.9$
 b. $-2 < -\frac{1}{3} < -0.01$
 c. $-\frac{1}{2} < -2\frac{3}{5} < \frac{1}{25}$
 d. $0.005 < \frac{1}{100} < 2\%$

17. Four runners finished a race in 46.5 seconds, 44.85 seconds, 44.7 seconds, and 45.75 seconds. Order the runners' times from first to fourth place. (59.T.NS.7)

- a. 44.85, 44.7, 45.75, 46.5
 b. 44.7, 45.75, 44.85, 46.5
 c. 44.7, 44.85, 45.75, 46.5
 d. 46.5, 45.75, 44.85, 44.7

18. Over the course of five days, the price of a stock rose each day by the following amounts. How are these changes in price ordered from greatest to least? (59.T.NS.7)

$$\frac{3}{10}, \frac{1}{2}, 1, 1\frac{1}{8}, \frac{1}{8}$$

- a. $1\frac{1}{8}, \frac{1}{2}, 1, \frac{1}{8}, \frac{3}{10}$
 b. $1\frac{1}{8}, 1, \frac{1}{2}, \frac{3}{10}, \frac{1}{8}$
 c. $1, 1\frac{1}{8}, \frac{1}{2}, \frac{3}{10}, \frac{1}{8}$
 d. $1, \frac{1}{2}, \frac{3}{10}, \frac{1}{8}, 1\frac{1}{8}$

19. The low temperature over four January days in Danville were -5 , 1.5 , 1.2 , and -2.5 degrees Fahrenheit. How are these temperatures ordered from coldest to warmest? (59.T.NS.7)

- a. $1.5, 1.2, -2.5, -5$
 b. $-5, -2.5, 1.5, 1.2$
 c. $-5, -2.5, 1.2, 1.5$
 d. $-2.5, -5, 1.2, 1.5$

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20. How are 0.4, 25%, -1 and $-\frac{1}{5}$ ordered from least to greatest? (59.T.NS.7)

- a. 0.4 , 25% , -1 , $-\frac{1}{5}$
- b. -1 , $-\frac{1}{5}$, 25% , 0.4
- c. 0.4 , 25% , $-\frac{1}{5}$, -1
- d. $-\frac{1}{5}$, -1 , 25% , 0.4

21. Each class tried to collect \$200 for a school fundraiser. Grade 5 collected \$197.85, Grade 6 collected \$198.50, Grade 7 collected \$198.38, Grade 8 collected \$198.47. Which grade was closest to the goal of \$200. (59.T.NS.7)

- a. Grade 5
- b. Grade 6
- c. Grade 7
- d. Grade 8

22. Tim needs a nail that is more than 3.5 inches long. He has nails of the following lengths. Which nail can Tim use? (58.T.NS.7)

$$3\frac{1}{4}, 2\frac{7}{8}, 3\frac{3}{4}, 3\frac{3}{8}$$

- a. $3\frac{1}{4}$
- b. $2\frac{7}{8}$
- c. $3\frac{3}{8}$
- d. $3\frac{3}{4}$

23. Billy ate $\frac{3}{4}$ of his lunch, Susie ate 60% of her lunch, Dan ate $\frac{5}{7}$ of his lunch and Kate ate 0.5 of her lunch. Who ate the most of their lunch? (59.T.NS.7)

- a. Billy
- b. Susie
- c. Dan
- d. Kate

24. Three different runners ran the following distances in miles. Order their distances from least to greatest. (59.T.NS.7)

$$5.053, 5.534, 5.042, 5.261$$

- a. 5.053 , 5.042 , 5.261 , 5.534
- b. 5.534 , 5.261 , 5.042 , 5.053
- c. 5.042 , 5.053 , 5.261 , 5.534
- d. 5.042 , 5.261 , 5.053 , 5.534

25. Four elevation measurements were taken at different points in a park. Which answer choice shows the elevations in order from least to greatest? (59.T.NS.7)

- a. $-1\frac{1}{4}$, $-1\frac{5}{8}$, $1\frac{3}{8}$, $1\frac{1}{2}$
- b. $-1\frac{5}{8}$, $-1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$
- c. $1\frac{3}{8}$, $1\frac{1}{2}$, $-1\frac{5}{8}$, $-1\frac{1}{4}$
- d. $1\frac{1}{2}$, $1\frac{3}{8}$, $-1\frac{5}{8}$, $-1\frac{1}{4}$