

Quarter One Study Guide

1. Which situation results in a **SUM** of zero?
 - a. A car drove 56.2 miles south and then 56.2 miles east.
 - b. A student bought a book for \$30.00 and sold it for \$25.
 - c. A student read 50 pages of a book and then another 50 pages.
 - d. A diver descended 26.9 feet in the ocean and then ascended 26.9 feet in the ocean.
2. Evaluate the expression below:

$$26 + (-19) + 9$$

- a. -16
 - b. -14
 - c. 16
 - d. 14
3. Which expression is **EQUAL** to $r - s$?
 - a. $-s + -r$
 - b. $-s + r$
 - c. $s + -r$
 - d. $r + s$
 4. What is the **DISTANCE** between an elevation of 432.56 feet above sea level and an elevation of 34.6 feet below sea level?
 - a. 397.96
 - b. -467.16
 - c. -397.96
 - d. 467.16
 5. The value of one share of stock was \$56.20 on Monday. The changes in the value of the stock over the week are listed in the table.

Changes in the Value of Stock

Day of the week	Changes in stock value (\$)
Tuesday	-0.46
Wednesday	1.20
Thursday	-0.34
Friday	-0.55

- What was the value of the stock at the end of the day on **THURSDAY**?
- a. \$54.20
 - b. \$-56.60
 - c. \$-1.08
 - d. \$56.60

6. June started out with \$230.60 in her checking account. She **deposited** \$123.65 and then wrote **checks** for \$125.00 for rent and \$169 for groceries. What was the remaining balance in Sam's checking account at the end of these transactions?
- \$-60.25
 - \$63.30
 - \$60.25
 - \$-2.23
7. An athlete at a track meet jumped $46\frac{3}{4}$ feet on his first triple jump and $45\frac{7}{8}$ on his second jump. How **much longer** was his first jump than his second jump?
- $1\frac{1}{8}$
 - $\frac{1}{8}$
 - $1\frac{1}{8}$
 - $\frac{7}{8}$
8. Ms. Thompson's dog, Duchess, cannot go outside if the temperature is below 40°F. At 7 PM the temperature was 55°F. Over the next 4 hours the temperature **dropped** 4.5 degrees, then **dropped** another 5.5 degrees, **rose** 2 degrees, and **dropped** 8.5 degrees. At 11 PM, was Ms. Thompson able to take Duchess outside and what was the temperature at 11 PM?
9. If the temperature is dropping 4 ° **every hour** during the night, what number shows the drop in temperature after 8 hours?
- 4
 - 8
 - 12
 - 32
10. In a class of 30 students, $\frac{2}{3}$ **of** the students walk to school. How many students in the class **walk** to school?
- 20
 - 10
 - 15
 - 30

11. Which expression is **not** equal to $\frac{13}{-10}$?

- e. $\frac{-13}{-10}$
- f. $-\frac{13}{10}$
- g. $\frac{-13}{10}$
- h. $-1\frac{3}{10}$

12. A piece of wood that is $37\frac{1}{4}$ inches long is cut into 5 **equal** pieces. How long is each piece of wood?

- a. 186.5 inches
- b. $7\frac{9}{20}$
- c. $7\frac{1}{2}$
- d. $8\frac{9}{20}$

13. Kelsey receives a weekly allowance of \$25.80. She receives $\frac{1}{5}$ of her allowance each day. How much allowance does Katie receive in **one day**?

- a. \$6.00
- b. \$6.16
- c. \$5.16
- d. \$4.25

14. Which decimal is equivalent to $\frac{1}{12}$?

- a. $0.8\bar{3}$
- b. 0.83
- c. $0.\bar{8}\bar{3}$
- d. 1.12

15. A flower measures $3\frac{4}{5}$ inches tall. What is the height of the flower in **decimal form**?

- a. 3.45 inches
- b. 3.46 inches
- c. 3.08 inches
- d. 3.80 inches

16. Calculate: $\frac{2}{5} \left(-\frac{2}{5}\right) \left(\frac{5}{2}\right)$?

- a. 0
- b. $-\frac{5}{2}$
- c. $-\frac{2}{5}$
- d. -2

17. What is the value of $(-3)^4$?

- a. -12
- b. 12
- c. 81
- d. -81

18. What is the value of the expression $-5\frac{1}{2} - 2\frac{1}{4} + 1\frac{5}{8}$?

- a. $4\frac{5}{8}$
- b. $-6\frac{1}{8}$
- c. $-1\frac{7}{8}$
- d. $-7\frac{7}{8}$

19. What is the value of the expression below?

$$\frac{1}{4} \div \frac{3}{4} - \frac{5}{4} \times \frac{1}{4}$$

20. What is the value of $-3.23 + 1.15 - 18.53$?

- a. 5.91
- b. -5.91
- c. -20.61
- d. 20.61