2nd Quarterly – SP: NS.1-3, RP.1-3 STUDY GUIDE

Calculator Active

1) It took Mya 2/5 of an hour to ride her bike $2\frac{1}{2}$ of a mile. How many miles per hour can Mya ride her bike?

2) To make 7 servings of fruit punch, Danielle used 4 cups of grape juice, 3 cups of water, and $\frac{3}{4}$ of a cup of sugar. How many cups of sugar will she use to make 2 servings of fruit punch?

3) Jackie's salary is proportional to the number of hours she works. Knowing that she made \$56 in 8 hours, create a graph that best models the relationship between the number of hours Jackie works and her salary?

4) Does this table represent a proportional relationship? If yes, what is the constant of proportionality?

x	у
5	15
6	18
7	21

5) The graph below shows the amount of money Janet earned at her new job.



How much does Janet earn per hour?

A	\$7.50	C.	\$10.50
В.	\$10.00	D.	\$15.00

6)

According to this graph, how fast is the train moving in miles per hour?







8) A 14-ounce box of cereal costs \$3.50. Which equation correctly relates the price (p) with the weight (w) of the cereal?

A) p = 2.5w B) p = 0.25w C) p = 3.5w D) p = 14w

9) Jax purchased an iPad mini on sale 20% off for \$198.50. What was the original price of the iPad mini?

A. \$315.84 B. \$992.50 C. \$248.13 D. \$400

10) A notebook costs \$4.50 plus sales tax. After sales tax, the notebook is \$4.86. What is the percent of tax?

A. 6% B. 7% C. 8% D. 9%

11) Tommy, the car salesman, earns \$275 in commission on the sale of a car. If his rate of commission is 4%, how much is the cost of the car?

A. \$6,875 B. \$400.00 C. \$275.00 D. \$463.50

12) Ryan bought a book for \$15.00, which includes 6% tax. What was the original price of the book?

A. \$14.61 B. \$13.50 C. \$14.15 D. \$12.95

13) Hannah paid \$22.50 for a dress that was originally marked \$30.50. What is the percent of discount?

A. 26% B. 58% C. 37% D. 158%

14) Mrs. Syfert recently started wearing a FitBit to allow her to track her steps. She estimated that she would take 5000 steps in a day. She actually took 11,000 steps. Calculate her percent of error.

A. 23.5% B. 75.5% C. 67.5% D. 54.5%

15) Sabrina earns 6.5% interest on an investment of \$1,500 each year. How much money will she earn after 6 years?

A. \$58,500 B. 75 C. \$585.00 D. \$40