

Name: _____

Due Date: _____

TOPIC 7 STUDY GUIDE

1. Mr. VanBeber filled the gas tank on his lawn mower with 3.8 gallons of gas. If he mowed his yard 10 times on the same tank of gas, how much gas did he use each time the lawn was mowed? Show your work.
2. Jack scored a total of 35.104 points in four gymnastic events. If he scored the same amount on each event, how many points did he score on each? Show your work.
3. The table shows the amount of different types of produce Mrs. Wood bought, and the total price she paid for each. What is the price per pound she paid for the apples?

Produce	Pounds	Total Price
Apples	3.4	\$2.89
Bananas	2.6	\$1.27
Grapes	3.7	\$2.85

4. The chef at a restaurant bought 37 pounds of salad for \$46.25. How much did she pay for 1 pound of salad? Show your work.
5. Consider $9.74 \div 0.32$. Which of the following has the decimal placed in the correct location?
 - a. 0.03475
 - b. 3.04375
 - c. 30.4375
 - d. 304.375

Name: _____

Due Date: _____

6. How many quarters are there in thirty dollars? Show your work.

7. Which of the following is the best estimate of $78.4 \div 18$?

- a. 740
- b. 50
- c. 5
- d. 4

8. How much would 10 students save if they bought 10 notebooks as a group rather than individually? Show your work.

Notebook Price	
Quantity	Cost
1	\$12
2	\$23
5	\$48
10	\$90

9. Use compatible numbers to estimate the quotient of $46.1 \div 2.3$. Show what numbers you used to estimate!

10. Owen has a care that averages 9.8 miles per gallon while Jonah's car averages 39.2 miles per gallon. How does Jonah's mileage compare to Owen's?

Name: _____

Due Date: _____

11. Lindsey is saving for vacation. The total cost of the vacation is \$1,800.36 and she has a year to save the money. How much money should she save per month so she can meet her goal? Show your work.

12. Claire knows that to find the quotient of $56.9 \div 10^3$ she needs to change the divisor to standard form. Find the quotient.

13. A developer owns 24 acres of land. He plans to use 1.2 acres for an entrance into a housing development and divide the remaining land into 0.6 acre lots. How many lots will he have? Show your work.

14. Joseph says that the decimal point in the following problem belongs after the 4. Is he correct? Why or why not?

$$43.68 \div 5.2 = 84.0$$

Name: _____

Due Date: _____

15. Mr. Queshi bought a watermelon that weighed 10.25 pounds. If she cut it into 5 pieces of equal weight, how many pounds did each piece weigh? Show your work.

16. Kaden bought 12.5 yards of fabric to make pillows. Each pillow requires 1.75 yards of fabric. Use compatible numbers to estimate the number of pillows Kaden can make.

17. Find $0.65 \div 16$.

Is the work shown below the correct way to solve the problem? Explain why or why not.

$$\begin{array}{r} 0.4 \\ 16 \overline{)0.64} \end{array}$$