

First Semester Review

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- Isabel wrote 11 letters to friends each month for x months in a row. Write an expression to show the total number of letters Isabel wrote.
 - $\frac{11}{x}$
 - $11x$
 - $11 + x$
 - $11 - x$
- Yuan's class has collected 143 cans in a food drive. The class plans to sort the cans into n bags, with an equal number of cans in each bag. Write an expression to show how many cans will be in each bag.
 - $143 + n$
 - $143 - n$
 - $143n$
 - $\frac{143}{n}$
- Write the phrase "5 less than y " as a numerical or algebraic expression.
 - $5 \div y$
 - $y \cdot 5$
 - $5 - y$
 - $y - 5$
- To find out which colors are popular for cars, a parking lot was sampled. The results are shown in the table. If there are k fewer green cars than blue cars, write an algebraic expression for the number of green cars.

Color	Number of Cars
Black	38
Blue	19
Red	30
White	27
Other	32

- $k - 19$
- $19 - k$
- $k + 19$
- $19 + k$

Numeric Response

- Evaluate the expression $2m + n$ for $m = 9$ and $n = 7$.

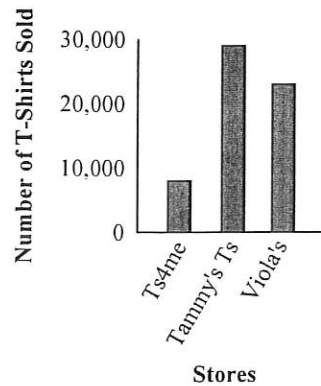
Short Answer

- Simplify the expression $63 \div (1 + 8) \cdot 2^3 - 5$.
- Dan has a list of the scores of all his math tests and quizzes during the year. What are the mean, median, and mode of the data set?
78, 79, 91, 75, 42, 74, 82, 75, 87, 85
- Find the quotient.
 $4.14 \div 4.5$
- Mr. and Mrs. Wodehouse's 5 children are buying a cake for their parents' wedding anniversary. The cake costs \$24.10. If the children split the cost equally, how much will each person pay?
- If you are making 23 sandwiches for a family reunion and 5 slices of turkey come in each package, how many packages will you need to buy?

Name: _____

11. Find the mean of the data set 18, 36, 24, 36, 30, and 36.
12. Find the quotient.
 $3.9 \div 3$
13. If one book is 2.3 inches wide and another is 1.049 inches wide, how much wider is the first?
14. Tell whether 870 is divisible by 2, 3, 4, 5, 6, 9, and 10.
15. Four bags of potatoes weigh 3.35 pounds, 4.894 pounds, 5.6 pounds, and 4.95 pounds. What is the total weight of the bags?
16. Find the GCF of 27, 48, and 24.
17. Write the prime factorization of 60.
18. Use compatible numbers to estimate 9.82×5.21 .
19. List all of the factors of 48.
20. Estimate $5.209 + 2.667$ by rounding to the nearest whole number.
21. Tell whether the number 13 is prime or composite.
22. Your class needs a total of 52 sandwiches for the parent luncheon. If 35 sandwiches have already been made, find the number n that is still needed.
23. Order the decimals 3.868, 3.278, 3.896 from least to greatest.
24. Solve the equation $m + 10 = 53$. Show all steps.
25. Write the decimal 3.9 in words.
26. One elephant weighs 2.18 tons, and another weighs 2.55 tons. Which weight is greater?
27. Solve the equation. Check your answer.
 $\frac{n}{5} = 43$

28. Solve the equation $s - 7 = 54$. Check your answer.
29. The school cafeteria is shaped like a rectangle with an area of 392 square feet. The length of the cafeteria is 28 feet. What is its width?
30. Find the value of 4^3 .
31. Solve the equation $10m = 200$. Show all steps.
32. A comic book costs \$2. How much is the total cost of 2, 3, 4, or 5 comic books?
33. Estimate the average number of T-shirts sold.



34. Use the Distributive Property to find the product $5 \cdot 75$.
35. Evaluate the expression to find the missing values in the table.

x	$x + 2$
9	11
15	?
27	?
36. Each student in the seventh grade will be required to write three papers that are a total of 13 pages long. If there are 47 students in the seventh grade, approximately how many sheets of paper will the seventh grade need to complete these assignments?
37. Write the expression $7 \times 7 \times 7 \times 7 \times 7$ in exponential form.