

Unit 1 STUDY GUIDE - Place Value and Whole Number
Operations-Multiplication
Due: Thursday, October 12th; Test Friday, October 13th

Name _____ # _____ Date _____

Place Value:

| | |
|--|---|
| 1. In the number 462 881; explain the difference between the two 8s. | 2. 4,678,342 What is the value of the 3? _____ What place value is the 7 in? _____ |
| 3. Write a number that is 10 times smaller than 5,000. | 4. Write a number that is 10 times bigger than 300. |

Order of Operations:

| | |
|-------------------------------------|--------------------------------------|
| 5. $40 \div (4 + 4) =$ _____ | 6. $6 \times 3 + 8 \div 2 =$ _____ |
| 7. $10 + [(18 - 6) \div 3] =$ _____ | 8. $36 \div 6 \times 2 + 13 =$ _____ |

Multiplication: Read each problem carefully and solve using the most efficient and accurate strategy for you. Remember to estimate first.

9. $43 \times 28 =$ _____

Estimate:

10. $158 \times 16 =$ _____

Estimate:

11. In the gym at Brock's Gap, the bleachers have 42 rows of seats. Each row has 245 seats. How many seats do the bleachers contain?

12. Susie saved all her allowance for 12 weeks. She made \$55 dollars each week, she had saved a total of \$208. How much money did she save each week?

13. a) $10^3 \times 10^2 =$ _____

b) $14 \times 10^3 =$ _____

c) $80 \times 10^2 =$ _____

d) $10^4 \div 10^2 =$ _____

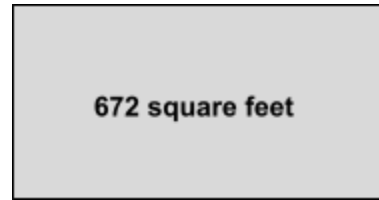
e) $4000 \div 10^2 =$ _____

14. $472 \times 61 =$ _____

15. Mrs. Ponder is buying tile to cover her kitchen floor. The length of her kitchen is 23 feet and the width of her kitchen is 16 feet. How many square foot tiles will she need to cover the kitchen floor?

16. Desiree wants a garden that has an area of 672 square feet. She knows the dimension of one side of the garden is 21 feet. What is the length of the other side of the garden?

21 ft



17. Bailey solved the following problem trying to use the traditional algorithm. Is she correct? Yes or no? If no, where is her mistake and what is the correct answer?

$$\begin{array}{r} 45 \\ \times 53 \\ \hline 135 \\ +225 \\ \hline 360 \end{array}$$

18. Michael works at a bakery. He makes 248 cupcakes and 95 cookies each day. How many cupcakes would he make in 85 days?

19. Write an expression for the calculation:

Divide 21 into thirds and subtract from 20 divided in half.

20. There were 18 students staying in each cabin at Camp McDowell. How many students were at Camp McDowell if there were 26 filled cabins?