Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Mid-Module 2 Study Guide

1. Fill in the chart.

|  |  |  |
| --- | --- | --- |
| Words | Expression | Value of Expression |
| 50 times the sum of 64 and 36 |  |  |
| Divide the difference between 1200 and 700 by 5 |  |  |
| The sum of 3 fifteens and 17 fifteens |  |  |
|   | 15 x (14 + 6)  |  |
|  | (250 + 45) x 10 |  |

1. Compare the two expressions. Explain how you know **without calculating**.
2. 100 x 9 25 x (4 x 6)
3. 12 x 16 42 sixteens – 30 sixteens
4. 75 x 15 15 seventy-fives, doubled
5. Tricia works at the clothing store 5 hours each day for 3 days. On the fourth day, she works 8 hours. Which expression represents how many hours Tricia works altogether?
6. 5 + 3 + 8
7. 5 x 3 x 8
8. 5 x (3 + 8)
9. (5 x 3) + 8
10. Multiply using the standard algorithm. Show your work below each problem. Write the product in the blank.
11. 514 x 33 = \_\_\_\_\_\_\_\_ b) 546 x 405 = \_\_\_\_\_\_\_\_\_
12. For the field trip, the school bought 47 sandwiches for $4.60 each and 39 bags of chips for $1.25 each. How much did the school spend in all?
13. Kathy makes hair bows to sell at the craft fair. Each bow requires 1.5 yards of ribbon.
14. At the fabric store, ribbon is sold by the **foot**. If Kathy wants to make 84 hair bows, how many **feet** of ribbon should she buy?
15. If the ribbon costs 10 cents per foot, what is the total cost of the ribbon in dollars? Explain your reasoning, including how you decided where to place the decimal point.
16. A local manufacturer is making 1,000 times as many as Kathy to sell in stores nationwide. Write an **expression** using an **exponent** to show how many yards of ribbon the manufacturer will need. Do *not* calculate the total.