\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ LOVES math class! Class Period: \_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Powerful Powers Review

C:\Documents and Settings\kbecker\Local Settings\Temporary Internet Files\Content.IE5\Z2ZYUDFV\MCj03326800000[1].wmfLabel the parts of the power.

1. In 84, the 4 is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. In 96, the 9 is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Write the product as a power in exponent form.

3. 2 x 2 x 2 x 2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. 15 x 15 x 15 x 15 x 15 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Seven squared = \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 5 cubed = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write each power in product form then evaluate and write the answer in standard form.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Power | Product Form | Standard Form |
| 7. | 52 |  |  |
| 8. | 43 |  |  |
| 9. | 32 x 102 |  |  |
| 10. | 08 x 63 |  |  |

Read and solve the problem.

11. *You send an email to 5 friends. The next day, each friend forwards the email to 5 more friends. On the third day, each of those friends forwards the email to 5 more friends. How many people are emailed on the 3rd day?*

List the order of operations.

12. First \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

13. Then \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

14. Then you calculate from left to right \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

15. And last you calculate from left to right \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Evaluate the expressions using the order of operations. You must show all steps.

16. 5 + 3 • 2 17. (7-2) • 4

18. 62 - 6 ÷ 2 19. 100 ÷ (18-8) + 3

20. 14 – 23 21. 107 + 5 • 6 ÷ 3 - 47

36 ÷ 12

Use mental math to solve the equations.

22. 2.58 x 100 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 23. 8.9 x 0.01 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

24. 12.47 ÷ 100 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 25. 9.108 ÷ 0.01 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_