

Additional Practice 5.6

NAME _____

Module 5 Decimal Operations, Exponents, and Powers
Lesson 6 Powers and Exponents

Write in exponential form.

1. $2 \times 2 \times 2$
 2^3

2. $6 \times 6 \times 6 \times 6 \times 6$
 6^5

Evaluate.

3. 4^3
64

4. 2^8
256

5. -5^4
-625

6. $(-2)^6$
64

7. 3 to the 3rd power
27

8. 7 to the 2nd power
49

9. $-1^{11} \times (-6)^2$
-36

10. $(-5)^3 \times -3^2$
1125

11. $(8 - 5)^2$
9

12. $-3(12 - 13)^2$
-3

13. $-4^3 - (-3)^4$
-145

14. $2^{10} - 5^3$
899

15. $4^3 \times 7^0$
64

16. $(-6)^0 \times 3^3$
27

17. 3^{-4}
 $\frac{1}{81}$

18. -4^{-2}
 $-\frac{1}{16}$

19. How many four-digit numbers are there that have all odd digits?

625 numbers

20. A questionnaire consists of 11 yes or no questions. How many different ways can someone answer all 11 questions?

2048 different ways

