NAME_____

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

Write in exponential form.

1. $2 \times 2 \times 2$

2. $6 \times 6 \times 6 \times 6 \times 6$

Evaluate.

3. 4^3

4. 2^8

5. -5^4

6. $(-2)^6$

7. 3 to the 3$^{\text{rd}}$ power

8. 7 to the 2$^{\text{nd}}$ power

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

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

11. $(8 - 5)^2$

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

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

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

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

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

17. 3^{-4}

18. -4^{-2}

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

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