Name Hour Date

HW 6.1

Properties of Exponents

In Exercises 1–6, evaluate the expression.

1.  2.  3. 

4.  5.  6. 

In Exercises 7–18, simplify the expression. Write your answer using only positive exponents.

7.  8.  9. 

10.  11.  12. 

13.  14.  15. 

16.  17.  18. 

19. A camera lens magnifies an object times. The length of an object is   
centimeter. What is its magnified length?

In Exercises 20–22, simplify the expression. Write your answer using only positive exponents.

20.  21.  22. 

In Exercises 23 and 24, simplify the expression. Write your answer using only positive exponents.

23.  24. 

In Exercises 25 and 26, evaluate the expression. Write your answer in scientific notation and standard form.

25.  26. 

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_\_

HW 6.1

In Exercises 1–6, evaluate the expression.

1.  2.  3. 

4.  5.  6. 

In Exercises 7–21, simplify the expression. Write your answer using only positive exponents.

7.  8.  9. 

10.  11.  12. 

13.  14.  15. 

16.  17.  18. 

19.  20.  21. 

In Exercises 22 and 23, simplify the expression. Write your answer using only positive exponents.

22.  23. 

In Exercises 24 and 25, evaluate the expression. Write your answer in scientific notation and standard form.

24.  25. 

26. Find *x* and *y* when  Explain how you found   
your answer.