Homework
Pg. 464 #1 - 5, 23 - 28

Simplify.

1. $2^2 \cdot 2^3$ 2. $5^3 \cdot 5^3$ 3. $n^6 \cdot n^2$ 4. $x^2 \cdot x^{-3} \cdot x^4$

5. **Science** If you traveled in space at a speed of 1000 miles per hour, how far would you travel in 7.5×10^5 hours? Write your answer in scientific notation.

Simplify.

23. $\left(2^3\right)^3$

24. $\left(3^6\right)^0$

25. $\left(x^2\right)^{-1}$

26. $\left(b^4\right)^6 \cdot b$

27. $b \cdot \left(a^3\right)^4 \cdot \left(b^{-2}\right)^3$

28. $\left(x^4\right)^2 \cdot \left(x^{-1}\right)^{-4}$