

**Lesson**  
**1.2**

**Extra Practice**

*odds only!*

Simplify the expression. Write your answer as a power.

1.  $2^6 \cdot 2^3$

2.  $3^2 \cdot 3^4$

3.  $6 \cdot 6^3$

4.  $5^3 \cdot 5^6$

5.  $7^2 \cdot 7^3$

6.  $(4^3)^4$

7.  $(5^2)^7$

8.  $3^6 \cdot 3^2$

9.  $(8^6)^2$

10.  $4^2 \cdot 4^8$

11.  $(5^3)^4$

12.  $(6^8)^2$

13.  $2^4 \cdot 2^9$

14.  $(5^8)^3$

15.  $3^2 \cdot 3^7$

16.  $5^9 \cdot 5$

17.  $(4^7)^9$

18.  $7^4 \cdot 7^6$

19.  $3^5 \cdot 3^7$

20.  $(6^5)^5$

21. Your friend wants to simplify the expression  $9^4 \cdot 9^3$ . Explain how your friend can complete their work.

$9^4 \cdot 9^3 = (9)$ $=$
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Simplify the expression. Write your answer as a product of powers.

22.  $(4 \cdot 2)^2$

23.  $(8 \cdot 3)^3$

24.  $(5 \cdot 6)^3$

25.  $(3 \cdot 8)^8$

26.  $(9 \cdot 5)^5$

27.  $(9 \cdot 6)^4$

28.  $(5 \cdot 7)^8$

29.  $(2 \cdot 4)^5$

30.  $(8 \cdot 4)^7$

31.  $(6 \cdot 7)^2$

32.  $(3 \cdot 8)^2$

33.  $(3 \cdot 5)^9$

34.  $(4 \cdot 2)^6$

35.  $(5 \cdot 4)^5$