

**SECTION**  
**1A**

**Chapter 1 Part 1 Test Review**

**1-1 Numbers and Patterns**

Identify a possible pattern. Use the pattern to write the next three numbers or figures in the pattern.

1. 3, 7, 11, 15...

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2. 100, 10, 1, 0.1...

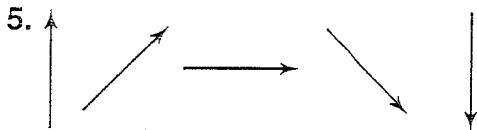
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3. 2, 6, 18, 54...

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4. 50, 41, 32, 23...

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**1-2 Exponents**

Find each value.

7.  $2^{10}$  \_\_\_\_\_

8.  $3^6$  \_\_\_\_\_

9.  $7^2$  \_\_\_\_\_

10.  $6^4$  \_\_\_\_\_

11.  $4^3$  \_\_\_\_\_

12.  $5^4$  \_\_\_\_\_

13.  $9^3$  \_\_\_\_\_

14.  $2^8$  \_\_\_\_\_

15. Brandt is starting a club. Every week, he gets 2 people to join the club. After joining, every member must get 2 new people to join every week. In the beginning, Brandt was the only member of the club. After 5 weeks, how many people will be members?

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16. A mother rabbit gives birth to 4 babies every six weeks. Assume all the rabbits are female and they each give birth to 4 babies every six weeks, quintupling the number of rabbits. How many rabbits will there be after 9 months? Write your answer as a power.

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**Chapter 1 Part 1 Test Review** continued

**1-3 Scientific Notation**

Multiply.

17.  $775 \cdot 10^4$

18.  $0.13 \cdot 10^6$

19.  $5.357 \cdot 10^2$

20.  $86.25 \cdot 10^7$

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Write each number in scientific notation.

21. 38,000,000

22. 14,500

23. 4,700,000

24. 397,000

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25. The earth is about 150,000,000 kilometers from the sun.

Write this distance in scientific notation.

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**1-4 Order of Operations**

Simplify each expression.

26.  $(10 + 4) - 6 + 4^2$  \_\_\_\_\_

27.  $35 - 4 \cdot 9 + 5^3$  \_\_\_\_\_

28.  $(3 \cdot 7) + 6 \cdot 4 - 17$  \_\_\_\_\_

29.  $10^2 \div 5^2 + (28 - 13)$  \_\_\_\_\_

30.  $5(7 - 3)^3 + 2^4$  \_\_\_\_\_

31.  $2(6 + 8) \div (4^2 - 9)$  \_\_\_\_\_

**1-5 Properties of Numbers**

Tell which property is represented.

32.  $12 \cdot 14 = 14 \cdot 12$

33.  $1 \cdot 36 = 36$

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34.  $(17 + 36) + 4 = 17 + (36 + 4)$

35.  $8 \cdot 12 \cdot 5 = 8 \cdot (12 \cdot 5)$

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Use the Distributive Property to find each product.

36.  $3(26) =$  \_\_\_\_\_

37.  $(18)9 =$  \_\_\_\_\_

$=$  \_\_\_\_\_

$=$  \_\_\_\_\_