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...

_____

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

_____

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

_____

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

_____

5.

_____

6.

_____

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. Damon has 4 times as many stamps as Julia. Julia has 4 times as many stamps as Claire. Claire has 4 stamps. Write the number of stamps Damon has in both exponential form and standard form.

_____

16. Holly starts a jump rope exercise program. She jumps rope for 3 minutes the first week. In the second week, she triples the time she jumps. In the third week, she triples the time of the second week, and in the fourth week, she triples the time of the third week. How many minutes does she jump rope during the fourth week?

_____

SECTION 1A 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. $86.25 \cdot 10^7$ _____

Write each number in scientific notation.

21. $38,000,000$ _____

22. $14,500$ _____

23. $4,700,000$ _____

24. $397,000$ _____

25. The earth is about 150,000,000 kilometers from the sun. Write this distance in scientific notation. _____

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. $1 \cdot 36 = 36$ _____

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

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

Use the Distributive Property to find each product.

36. $3(26) =$ _____

37. $(18)9 =$ _____

$=$ _____

$=$ _____

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