MATHQUEST CHAPTER 3-PART 2
NUMBER THEORY

1. After reading the Chapter 3 Objectives, summarize them in your own words.

SECTION 3-4-GREATEST COMMON FACTOR

2. From the **GCF-Ladder video**, what is the answer to the very LAST problem?

VOCABULARY

3. common factor-

greatest common factor-

EXAMPLES

Find the GCF of each set of numbers.

4. 14, 35   **5.** 10, 18   **6.** 12, 16, 28   **7.** 72, 120

8. In 3 sentences, explain or summarize Section 3-4.

SECTION 3-5-LEAST COMMON MULTIPLE

9. From **LCM-Factor tree video**, what is the answer to the problem?

VOCABULARY

    10. <u>multiple</u>-

    <u>common multiple</u>-

    <u>least common multiple</u>-

EXAMPLES

Find the LCM of each set of numbers.

    11. 4, 9   **12.** 14, 21   **13.** 18, 24   **14.** 4, 7, 20

    15. In 3 sentences, explain or summarize Section 3-5.

SECTION 3-6-THE DISTRIBUTIVE PROPERTY

16. From the **Distributive Property video (2nd Video)**, what is the answer to the problem?

17. From the **Basic Factoring video (3rd Video)**, what is the answer to the last problem (3y - 9)?

VOCABULARY

18. <u>Distributive Property</u>-

<u>equivalent expressions</u>-

<u>factor</u>-

EXAMPLES

Use the Distributive Property to write an equivalent expression.

19. 3(x + 5)   **20**. 9(2y - 4z + 8)

Factor each expression

21. 12 + 16   **22.** 9x + 12

23. In 3 sentences, summarize or explain Section 3-6.

SECTION 3-7-SIMPLIFYING ALGEBRAIC EXPRESSIONS

24. From the **Combining Like Terms video**, what is the answer to the last example?

VOCABULARY

25. <u>term</u>-

<u>coefficient</u>-

EXAMPLES

Find an equivalent expression for each by simplifying.

26. 7b + b + b

27. 3x + 4x - 2x

28. 7 - 3w + 3

29. 2c + 8 + 4c - 3

30. In 3 sentences, summarize or explain Section 3-7.