Algebra 1 – Unit 1 Pre-Test

1. Integers & Number Lines

a. Plot the following numbers on a number line: -5, 0, 3, 7

b. What is the opposite of -6?

c. Which number is farther from 0: -8 or 5?

2. Factors, Multiples & Prime Numbers

a. List all factors of 24.

b. Is 37 a prime number? How do you know?

c. Write the first five multiples of 6.

3. GCF & Simplifying Fractions

a. What is the greatest common factor (GCF) of 18 and 30?

b. Simplify the fraction 12/20.

c. Explain how you can use factors to simplify a fraction.

4. Fractions, Decimals & Percents

a. Write 0.25 as a fraction.

b. Write 3/5 as a percent.

c. Which is larger: 40% or 0.35?

5. Multiply, Divide & Compare Fractions

a. Multiply: 2/3 × 3/4

b. Divide: 4 ÷ 1/2

c. Order from least to greatest: 1/2, 0.3, 25%

6. Solving with Fractions, Decimals & Percents

a. A shirt is 25% off and now costs $18. What was the original price?

b. Your test score was 18 out of 20. What is that as a percent?

7. Order of Operations

a. Simplify: 5 + 3 × 2

b. Simplify: (4 + 6) ÷ 2

c. What should you do first in this expression? 12 - 4 × (2 + 1)