

## MATH 4 PREREQUISITE SKILLS

### WHOLE NUMBERS

1. Write a whole number in words.
2. Given its word name, write a whole number.
3. Write a whole number in expanded notation.
4. Specify the order relationship between two whole numbers using inequality symbols.
5. Add, subtract, multiply and divide whole numbers.
6. Round a whole number with any given accuracy.
7. Write multiplication with exponential notation.
8. Perform order of operations on whole number computation.
9. Find the least common multiple of a set of whole numbers.
10. Factor a whole number into prime factors.
11. Find the greatest common factor of a set of whole numbers.
12. List all factors of a whole number.

### FRACTIONS

1. Identify the numerator and denominator of a fraction.
2. Simplify fractions by reducing to lowest terms.
3. Multiple and divide fractions.
4. Add and subtract fractions with like denominators.
5. Find the lowest common denominator of two fractions.
6. Given a fraction, write an equivalent fraction with a different denominator.
7. Add and subtract fractions with unlike denominators.
8. Convert mixed numbers to improper fractions.
9. Convert improper fractions to mixed numbers.
10. Add, subtract, multiply, divide mixed numbers.

### DECIMALS

1. Identify the place value of a digit in a decimal number.
2. Round a decimal number with any given accuracy.
3. Add, subtract, multiply and divide decimal numbers.
4. Convert a fraction to an equivalent decimal.
5. Convert a decimal to an equivalent fraction.

### PERCENTS

1. Change a percent to a fraction or decimal.
2. Change a decimal or fraction to a percent.
3. Solve a percent problem with the percent, base or amount unknown.

### RATIO AND PROPORTIONS

1. Given a verbal statement, write an appropriate ratio.
2. Compute unit pricing from ratios.
3. Given a verbal statement, write an appropriate proportion.
4. Solve a simple proportion.

### GEOMETRY

1. Find the perimeter of a square, rectangle, triangle, and parallelogram.
2. Find the circumference of a circle.
3. Find the area of a square, rectangle, triangle, parallelogram, and circle.
4. Interpret basic bar graphs and pie charts.