Integers - Unit Objectives

In this unit you shall look to achieve the following:

Using models, number lines, and numbers you will be able to show that you understand how to multiply and divide integers.

This objective falls under the **number sense** *strand in grade eight math. Operations with integers is a foundational skill that will weave its way through much of what you do in math as you move forward.*

These are the specific skills you will be expected to demonstrate:

1. Show which operation is needed to solve a problem.
2. Give examples of where you would multiply two integers.
3. Give examples of where you would divide two integers.
4. Show how you would multiply two integers using a model, or number line.
5. Show how you would divide two integers using a model, or number line.
6. Create a rule that simplifies the sign of the product (answer) when multiplying two integers.
7. Create a rule that simplifies the sign of the quotient (answer) when dividing two integers.
8. Solve a problem involving multiplication and division of integers (without a calculator).
9. Solve a more complex problem involving multiplication and division of integers, with a calculator (if needed).
10. Solve a problem involving integers where order of operations must be considered.

A brief review of adding and subtracting integers will take place prior to this unit beginning. These are skills that were introduced in grade seven.