Unit Review

What Do I Need to Know?

- A whole number is divisible by:
 - **2** if the number is even
 - **3** if the sum of the digits is divisible by 3
 - 4 if the number represented by the last 2 digits is divisible by 4
 - **5** if the ones digit is 0 or 5
 - 6 if the number is divisible by 2 and by 3
 - 8 if the number represented by the last 3 digits is divisible by 8
 - **9** if the sum of the digits is divisible by 9
 - **10** if the ones digit is 0

A whole number cannot be divided by 0.

A *variable* is a letter or symbol.

It represents a set of numbers in an *algebraic expression*.

A variable can be used to write an algebraic expression:

"3 less than a number" can be written as n - 3.

A variable represents a number in an equation. A variable can be used to write an equation. "4 more than a number is 11" can be written as x + 4 = 11.

An algebraic expression can be *evaluated* by substituting a number for the variable.

6r + 3 when r = 2 is: $6 \times 2 + 3 = 12 + 3$ = 15

A relation describes how the output is related to the input. A relation can be displayed using a table of values or a graph. When points of a relation lie on a straight line, it is a *linear relation*.



An equation can be solved using tiles.