What is MATH 113?

MATH 113 is a math course that is appropriate for students in many applied technology fields. The course includes a review of number concepts and operations, measurement and data-handling, algebraic expressions, systems of equations, and trigonometry.

- If you feel confident you could correctly answer 4, 5 or all 6 of these questions, then enroll in only MATH 113.
- If you feel less confident or think you could only answer 0, 1, 2, or 3 questions correctly, then enroll in MATH 113 with additional support.

1. Can you use the order of operations to evaluate each expression?
   a. $3(5-1)^2 + 12$
   b. $9 \cdot 5 - 3 \cdot 2$
   c. $\frac{67-7}{8 \cdot 3 - 2 \cdot 2}$

2. Can you round each of these numbers to the indicated place?
   a. 13.12729 to the hundredths place
   b. 4,381.31 to the tens place
   c. 60.1195 to the tenths place

3. Can you graph $y = 2x - 4$ on the coordinate plane?

4. Can you solve each of these equations for x?
   a. $3.8x + 1 = 5.4x - 2.2$
   b. $4(2x - 9) - 6 = 3x - 2$

5. Can you do each of the following conversions?
   a. Convert 51 inches to feet.
   b. Convert 12.3 meters to centimeters.
   c. Convert 45.0 square feet to square inches.

6. Can you use geometric formulas to do the following calculations?
   a. Using the formula $V = \pi r^2 h$, find the volume of a cylinder with a radius of 124 meters and height of 232 meters.
   b. Using the formula $P = 2L + 2W$, find the perimeter of a rectangle with a length of 3.2 inches and width of 1.9 inches.