

## MAT0028 ~ Lesson 12

Work the following examples as you listen to the recorded lecture.

### Intro to Problem Solving

*Translate and solve:*

Example 1: The sum of six times a number, and 1, is equal to five times the number. Find the number.

Example 2: Three times a number, minus 6, is equal to two times the number, plus 8. Find the number

Example 3: Twice the sum of -2 and a number is the same as the number decreased by  $\frac{1}{2}$ . Find the number.

Example 4: A 25-inch piece of steel is cut into three pieces so that the second piece is twice as long as the first piece, and the third piece is one inch more than five times the length of the first piece. Find the lengths of the pieces.