

1. Twice a number plus 3 is the same as the number minus 6.

Independent / Dependent

Ex 2. The length of a swimming pool is 20 ft longer than the width. Express the length and the width of the pool in algebraic expression.

Ex 3. The force of gravity on the moon is approximately one-sixth the force of gravity on Earth. Express the force of gravity on moon and Earth in algebraic expression.

Ex 4. A mixture of nuts contains five pounds more peanuts than cashews. Express the amount of peanuts and cashews in the mixture in algebraic expression.

*** Using Problem-Solving Steps to Solve Problems**

1. Assign a variable to represent the unknown.
2. Set up equation using the variable.
3. Solve.
4. Interpret the solution.

Ex 5. The distance by road from Cincinnati to Denver is 71 miles less than the distance from Denver to San Francisco. If the total of these two distances is 2399 miles, find the distance from Denver to San Francisco.

Ex 6. A woman's \$57000 estate is to be divided so that her husband receives twice as much as her son. How much will each receive?

Ex 7. The measure of the shortest side of a triangle is 5 inches less than the measure of middle side. The measure of the longest side is twice of the middle side. If the perimeter of the triangle is 39 inches, find the measure of longest and shortest side of the triangle.