You wrap a gift when you KNOW what the gift is....How do you wrap a gift?



...this is like knowing/having all of the numbers in a math problem. If you know all the numbers (there are no variables) how do you solve a math problem?

You **unwrap** a gift when you DON'T KNOW what the gift is....How do you unwrap a gift?



...this is similar do solving equations in math (when you have an unknown/variable). If you have a variable (and there is more than one step) how would you solve a math problem?

Ex: $\frac{x}{2} + 5 = 11$ **Ex:** 5x + 9 = 24

Ex: 4y - 4 = 16

Ex: $-1 = \frac{z}{3} - 7$

Ex: 7x - 4x = 21

Ex: 4w + 2w = -24

Ex: 8t - 3t = -35

Ex: -16 = 5d - 9d

Write a function. Then solve using the given information.

Ex: The output of a function is 3 less than 5 times the input. Find the input when the output is 17.

Ex: The output of a function is 5 more than -2 times the input. Find the input when the output is 11.

Ex: The output of a function is 4 less than 4 times the input. Find the input when the output is 3.

Ex: As a scuba diver descends into deeper waters, the pressure of the water on the divers body increases. The pressure at the surface of the water is 2117 lbs per square foot (lb/ft²). The pressure increases at a rate of 64 lbs per square foot for each foot the diver descends. Write an equation to represent the situation then find the depth at which the diver experiences a pressure of 8517 lbs/ft².



Ex: Kim has a job where she makes \$8/hr plus tips. Yesterday Kim made \$53, \$13 of which were from tips. Write an equation to represent the situation, then find out how many hours Kim worked yesterday.