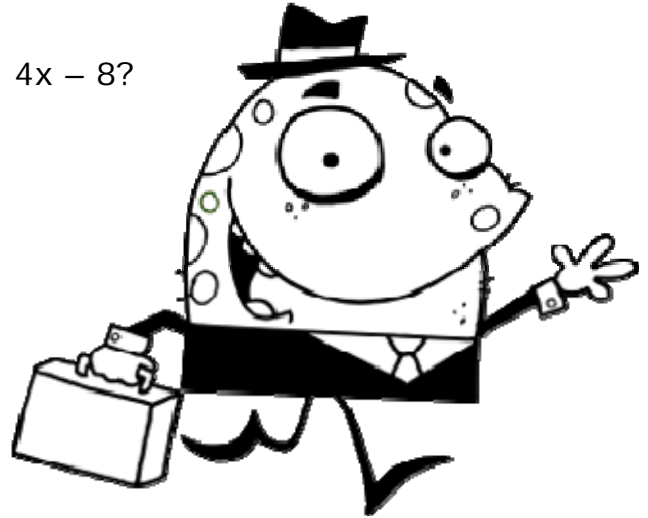


Name _____

Date _____

Invertible Functions - Step-by-Step Lesson

What is the inverse of the function $f(x) = 4x - 8$?



Explanation: 1

Step 1) An inverse of a function flips the x and y values.

Step 2) The function: $f(x) = 4x - 8$

Put "y" for "x", add 8 to both sides:

$$y = 4x - 8$$

Divide both sides by 4:

$$y + 8 = 4x$$

Swap sides:

$$(y+8)/4 = x$$

$$x = (y+8)/4$$

Solution (put " $f^{-1}(y)$ " for "x") : $f^{-1}(y) = (y+8)/4$

