1.3 More Inequalities

1. The length of time Julie spent on the treadmill is 4 minutes less than she spent on the bike. The length of time Julie spent on the rowing machine is twice the length of time she spent on the bike. The total length of time Julie worked out is at least 24 minutes. Write an inequality to model the situation.

let
$$x = time$$
 on bike
 $x-4 = time$ on treadmill
 $2x = time$ on rowing machine
bike + treadmill + rower
 $x + (x-4) + 2x \ge 24$

2. The length of a rectangular garden is 3 less than twice the width of the garden. If the perimeter is a maximum of 400 feet, what is the possible width of the garden?

Write an inequality for the situation.

let
$$x =$$
 the width of the garden
 $2x-3 =$ the length of the garden
is less than - $x =$ P = 2l + 2w
 $x =$ P
 $x =$ 2(ax-3)+2(x) $x =$ 400

HOMEWORK

Worksheet HW 1.3 More Inequalities