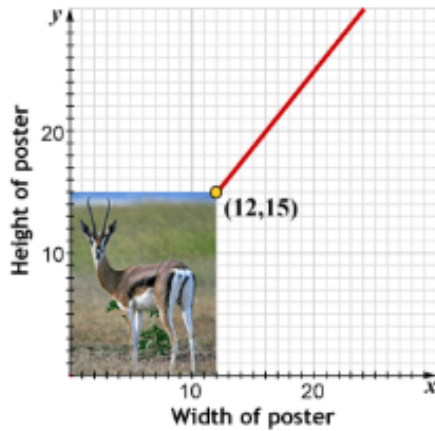


**TOPIC 2: Ratios & Rates – Block 7 Homework**

1. Using the graph, determine the constant of proportionality and write in its *simplest form*.

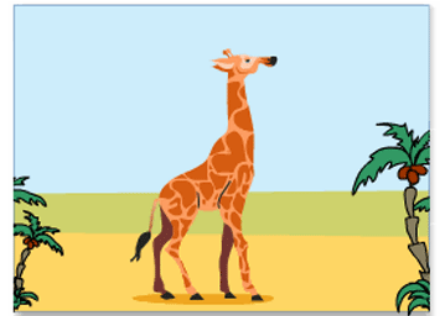


Constant of proportionality: \_\_\_\_\_

2. Write the equation that represents the proportional relationship in problem 1: \_\_\_\_\_

3. The smallest poster in the gift shop has a width of 12 inches and a height of 15 inches. The largest poster has a width of 32 inches. What is the height of the largest poster?

4. The photograph is 5 inches wide. The height of the giraffe in the photo is 2 inches. The actual distance between the two palm trees is 25 feet. (Hint: label given measurements on the photograph.)



- a. **Write an equation** showing the direct variation relationship for the distance between palm trees and the height of the giraffe.
  
- b. **Use this equation** to find the actual distance between the palm trees.