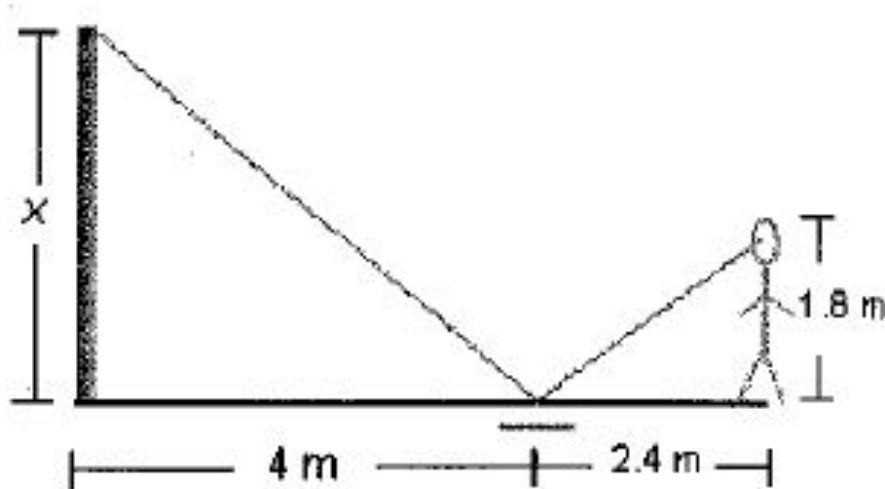# Math Virtual Learning

Geometry

April 17, 2020

Geometry
Lesson: April 17, 2020

Objective/Learning Target:
Use Similarity to Solve Problems in Context

Bell Ringer:

The Truman Statue is located in downtown Independence on the grounds of the Jackson County Courthouse. It is located here because Truman was a Judge in this Jackson County Courtroom. You are 1.8 meters tall and standing 2.4 meters from a point. The statue is 4 meters from the same unknown height of the statue. The triangles below are similar. Find the height of the statue.

Bell Ringer Answer: 3 meters

Let's Get Started:
Watch Video: Similarity Problems in Context

After you complete video, move on to the practice problems provided.

Practice: Solve the following two problems.

1) In November 2005, the exchange rate of Canadian dollars to US dollars was 1 to 0.85. A Canadian citizen paid $12.28 in US dollars for lunch while in New York City. What was the price of the lunch in Canadian dollars?

2) Television screen sizes are the diagonal length of the rectangular screen. Hector recently changed from watching a television with a 13-inch screen to a television with a similar 19-inch screen. If a boxcar appeared 8 inches long on the 13-inch screen, how long, to the nearest inch, will it appear on the 19-inch screen?

3) You purchase a scale model of a train. The model states that the scale in 1 inch to 5.4 feet. If the model is 10 inches long, how long is the actual train?

Answer Key:
Here you will find the answers to the previous four questions.
Check your answers below.

1) Approximately 14.45 Canadian dollars

2) Approximately 11.69 inches

3) 54 feet

Additional Resources:
Click on the link below to get additional practice and to check your understanding!

[Similar Figures Word Problems Practice](#)