

Problem-Solving Application: Use Proportions

Use the questions to help you solve.
Round all answers to the nearest ones.

1. On a recent trip to Washington, D.C., Julia measured some shadows. The shadow of the Washington Monument was 202.8 meters long. The shadow of the Vietnam Veterans Memorial Wall was 3.75 meters long. Julia's shadow was 1.8 meters long. Julia is 1.5 meters tall. How tall are the Washington Monument and the Vietnam Veterans Memorial?

UNDERSTAND

What do you know that will help you solve the problem? _____

PLAN

Draw a diagram that uses similar triangles.

SOLVE

Write a proportion for each problem. How will you solve them? _____

LOOK BACK

How can you check your answer?

Solve.

2. Julia, who is 1.5 meters tall, stood next to a statue in a park. The statue is 3 meters tall and casts a shadow 5 meters long. What would the length of Julia's shadow be?