

Problem-Solving Decisions: Multistep Problems

1. From the south rim of the Grand Canyon, you can follow the Bright Angel Trail $7\frac{7}{10}$ miles to reach the Colorado River. If you walk another $1\frac{3}{5}$ miles, you reach the Bright Angel campground. When hiking the trail, most people stop for a rest at Indian Garden, which is about $4\frac{1}{2}$ miles from the beginning of the trail. How far is it from Indian Garden to the Bright Angel campground?

UNDERSTAND

How can drawing a map help you understand the question?

PLAN

How many steps will it take to solve this problem?

What will you do first? What will you do next?

SOLVE

Which fractions will you rename to make your addition or subtraction easier?

What is your answer to the question?

LOOK BACK

How can you use addition and subtraction to check your answer?

2. From the Bright Angel Campground, the trail continues north for about $\frac{1}{2}$ mile where it passes through Phantom Ranch. From there, the journey to the north rim is a difficult $13\frac{7}{8}$ mile hike. Travis hikes $6\frac{1}{8}$ miles in the morning and $6\frac{3}{4}$ miles in the afternoon. How much farther does he have to hike before he reaches the north rim?
