



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

Galileo, Archimedes and Pythagoras decided to go on a climbing adventure in the mountains of Peru. For the journey they hired a guide who would show them the ropes and prepare the meals. Their guide, Hachu, was a very experienced climber and knew all the shortcuts.

Their journey would take two weeks and their goal was to climb to the summit of Mt. Pisco, located near Machu Picchu, 3000 meters above sea level, in the Andes.

They made the following distances each day and set up camp each night.

## Daily Schedule

Day 1	Arrive River Camp	(1000 m)
Day 2	Reach Lake Camp	(800 m)
Day 3	Trek to Col Camp	(500 m)



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Day 15 From River Camp the group hiked back to town which was 1000 m. They were now 3000 m above sea level.

Use the daily schedule to answer the questions on the next page.





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Galileo, Archemides and Pythagoras are reflecting on their journey. Use their information to answer the following. (Hint: Round all the answers to the nearest meter.)

1. What was the total distance covered over the two week trek? .....
2. What was the average distance in meters covered each day? .....
3. Over which four day period on the trek was the most distance covered? .....
4. Suppose the group did not take rest days and made the same distances as above. What would the average daily distance have been? .....
5. How far is it from River Camp to Col Camp? .....

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**Challenge:**

Now that they have mastered Mt. Pisco, the group wants to attempt Mt. Huascarán, at a height of 6768 meters. Base Camp is located at 3500 meters above sea level and they would like to complete the summit and return down the mountain in twelve days. What distance must they aim to average each day if they are to complete the climb on schedule?



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Galileo, Archemides and Pythagoras are reflecting on their journey. Use their information to answer the following. (Hint: Round all the answers to the nearest meter.)

1. What was the total distance covered over the two week trek? ...**5504 m**.....
2. What was the average distance in meters covered each day? ...**367 m**.....
3. Over which four day period on the trek was the most distance covered?  
.....**Days 12, 13, 14, 15**.....
4. Suppose the group did not take rest days and made the same distances as above.  
What would the average daily distance have been? ...**423 m**.....
5. How far is it from River Camp to Col Camp? ...**1300 m**.....
6. How tall is Mt. Pisco if River Camp is 4000 m above sea level? ...**5752 m**.....

7  
8



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The summit of Mt Huascarán is 3268 m above the Base Camp. The group needs to average 272 meters a day if they are to complete the climb in 12 days.