

Problems based on
Henry Hikes to Fitchburg
by D.B. Johnson

Sharon, MaryBeth and Elena

Primary Grades:

1. How much money did Henry's friend earn in all?
2. How much money did Henry's friend have left after he bought his train ticket to Fitchburg?
3. How much would it cost Henry's friend to take a round trip to Fitchburg?

Elementary/Middle Grades:

1. What was the cost per mile for Henry's friend's trip to Fitchburg?
2. Write each amount of money earned as a decimal and as a fraction in simplest form.
3. Construct a stem and leaf plot for Henry's friend's earnings.
4. Use the data from question #3 to find the range, the mean, the median, and the mode.
5. Graph the data from question #3 into a bar graph, a line graph, and a pie graph.
6. Find as many flips, slides, and turns on each page as possible. Identify them by drawing and labeling each.
7. Identify as many lines of symmetry on each page as possible. Draw and label your findings.
8. How many round trips to Fitchburg could Henry's friend take if he earned \$5.00? \$10.00? \$50.00? \$150.00? You may use a chart or a drawing to show your work. Describe any pattern you noticed. Write a rule that can help you solve for any amount of money earned. Explain how you know you are correct.

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Christine

1. A train ticket costs \$0.90 to get to Fitchburg. Using a combination of at least one quarter, one dime, one nickel, and one penny, describe three ways to purchase your train ticket.
2. A train ticket costs \$0.90 to get to Fitchburg. Using a combination of at least one quarter, one dime, one nickel, and one penny, try to find a way to use the least amount of coins possible to purchase your train ticket.
3. Calculate the time it took Henry's friend to earn \$0.40. Clue: Look at his watch on the first few pages.

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Colleen

Find at least two examples of symmetry on the page where Henry is waving good-bye to his friend. Explain how your examples are symmetrical.

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Kelly and Virginia

1. By the time Henry climbed a tree in the story, what part of his trip had he already walked to Fitchburg? Write your answer as a fraction in lowest terms.

Answer: $30-18=12$ $12/30 = 2/5$

2. When the friend got paid 20 cents for carrying flour from the mill, how many different combinations of coins could he have been paid with?

Answer: 8 ways
 20 pennies
 15 pennies, 1 nickel
 10 pennies, 2 nickels
 10 pennies, 1 dime
 5 pennies, 3 nickels
 5 pennies, 1 dime, 1 nickel
 2 dimes
 4 nickels

3. How many cents per mile does the train ticket cost?

Answer: 90 cents for 30 miles, or 3 cents per mile

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