

By the Shores of Silver Lake Math Week 6



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Excerpt from 'By the Shores of Silver Lake', by Laura Ingalls Wilder.

That night more strangers came. The next night there were more. Ma said, "Mercy on us, aren't we have to one night in peace by ourselves?"

"I can't help it, Caroline", said Pa, "We can't refuse folks shelter, when there's nowhere else they can stay."

"We can charge them for it, Charles," Ma said firmly.

Pa did not like to charge folks for shelter and a meal, but he knew Ma was right. So he charged them twenty-five cents a meal, and twenty-five cents a night for shelter, man or horse.

Use the information provided above to solve the word problems below. Figure up how much each man would need to pay for shelter and meals. *Use a separate sheet of paper to figure up the problems.*

Example: Will + 1 horse:

Shelter & Meal Bill: \$ 3.50

- a. Meals Eaten: 8*
- b. Shelter Nights: 3*

Solution:

$$\text{Meals } (\$0.25/\text{meal}) \times 8 = \$2.00$$

$$\text{Shelter } (\$0.25/\text{night per man}) \times 3 = \$0.75$$

$$\text{Shelter } (\$0.25/\text{night per horse}) \times 3 = \$0.75$$

$$\$2.00 + \$0.75 + \$0.75 = \$3.50$$

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1. Bill + 1 horse: Shelter & Meal Bill: \$ _____
a. Meals Eaten: 2
b. Shelter Nights: 1
2. Sam: Shelter & Meal Bill: \$ _____
a. Meals Eaten: 4
b. Shelter Nights: 1
3. Michael + 1 horse: Shelter & Meal Bill: \$ _____
a. Meals Eaten: 7
b. Shelter Nights: 2
4. Tom: Shelter & Meal Bill: \$ _____
a. Meals Eaten: 6
b. Shelter Nights: 4
5. Henry + 2 horses: Shelter & Meal Bill: \$ _____
a. Meals Eaten: 18
b. Shelter Nights: 5
6. Who had the highest Meal Bill? _____ How much was it? _____
7. Who had the cheapest Shelter Bill? _____ How much was it? _____
8. Who had the cheapest Total Bill? _____ The highest? _____