

Name: _____

Date: _____

Scaffolding for Lesson 2.2, Question 10

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10. Tools To Go rents out carpet cleaners. It charges \$15.00 for the first hour or part of an hour plus \$3.50 for each additional half hour or part of a half hour.

a) Tim picked up the carpet cleaner at 8:10 a.m. and returned it at 4:10 p.m. Determine his rental charge.

For how many hours did Tim rent the carpet cleaner? _____

How much was he charged for the first hour? _____

After the first hour, how many hours were left? _____

How many half hours is that? _____

The cost for those half hours would be $\$3.50 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$.

The total rental cost would be $\$15.00 + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$.

b) Calculate the average cost per hour for Tim's rental.

$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
(Total cost) (Total number of hours) (Average cost per hour)

What is the average cost per hour? _____

c) Charmaine's carpet cleaner cost \$59.40 for 5.5 hours.

$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
(Total cost) (Total number of hours) (Average cost per hour)

What is the average cost per hour? _____

Compare the average cost per hour of Charmaine's rental to Tim's rental. How many times as much is it?

$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$
(Charmaine's average cost per hour) (Tim's average cost per hour)