6th hr
Mon 11-23-

You want to rent a car for one day and have narrowed it down to two companies: Rent-a-Lemon and Drive-a-Wreck.

Rent-a-Lemon charges you $45 a day plus $0.25 per mile.

Drive-a-Wreck charges you $60 a day plus $0.17 per mile.

1. Write an equation for each company. Use the following variables:

C =total charge m =# miles driven

Rent-a-Lemon Eq:

Drive-a-Wreck Eq:

2. If you only rent a car for one day, find the number of miles for which the two companies would charge you the same amount.

Answers

2. You want to rent a car for one day and have narrowed it down to two companies: Rent-a-Lemon and Drive-a-Wreck.

Rent-a-Lemon charges you $45 a day plus $0.25 per mile.

Drive-a-Wreck charges you $60 a day plus $0.17 per mile.

a. Write an equation for each company. Use the following variables:

C =total charge m =# miles driven

Rent-a-Lemon Eq: $C = 45 + .25m$

Drive-a-Wreck Eq: $C = 60 + .17m$

2. If you only rent a car for one day, find the number of miles for which the two companies would charge you the same amount.

$45 + .25m = 60 + .17m$

$-.17m \quad -.17m$

$45 + .08m = 60$

$-45 \quad -45$

$\frac{.08m}{.08} = \frac{15}{.08}$

$m = 187.5$ miles