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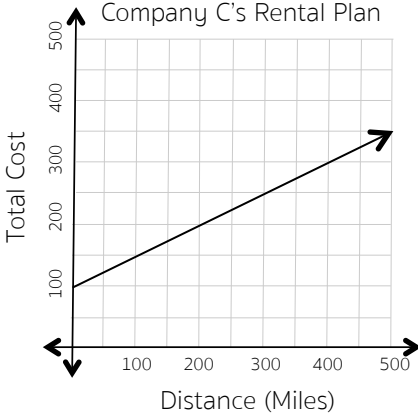
Road Trip!
Modeling and Analyzing Linear Relationships

Landon and his family are planning a road trip. They need to rent a car, and they are considering four different rental companies. The information they received about the companies is organized below.

Company A's Rental Plan	
Distance (Miles)	Total Cost
0	200
500	300
750	350

Company B's Rental Plan:

We have no initial fee! The more you drive, the more you pay. Each mile driven costs $0.75.

Company C's Rental Plan

Company D's Rental Plan:

$500 payment due no matter the distance traveled!
Traveling 300 miles? $500!
Traveling 1000 miles? $500!

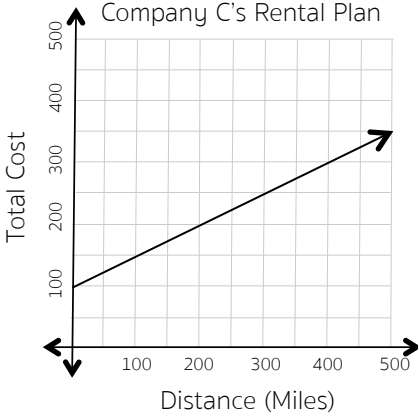a) Write an equation to model each of the rental plans. Let m=distance (miles) and C=total cost.

A	B
C	D

b) Consider the equations you created above. State the meaning of the slope and the y-intercept in the context of the rental plans.

Road Trip!
Modeling and Analyzing Linear Relationships – Answer Key

Landon and his family are planning a road trip. They need to rent a car, and they are considering four different rental companies. The information they received about the companies is organized below.

<table>
<tr><td colspan="2">

Company A's Rental Plan

Distance (Miles)	Total Cost
0	200
500	300
750	350

</td><td>

Company B's Rental Plan:

We have no initial fee! The more you drive, the more you pay. Each mile driven costs $0.75.

</td></tr>
<tr><td colspan="2">

Company C's Rental Plan

</td><td>

Company D's Rental Plan:

$500 payment due no matter the distance traveled!
Traveling 300 miles? $500!
Traveling 1000 miles? $500!

</td></tr>
</table>

a) Write an equation to model each of the rental plans. Let m=distance (miles) and C=total cost.

A C=0.2m+200	B C=0.75m
C C=0.5m+100	D C=500

b) Consider the equations you created above. State the meaning of the slope and the y-intercept in the context of the rental plans.

The slope represents the cost per mile. The y-intercept represents the initial rental fee.

Thanks for stopping by!

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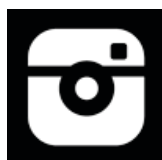You can earn TpT credits to use towards future purchases by rating the products you've downloaded.

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