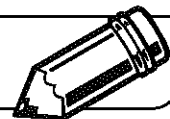


LESSON
10•3

Patterns and Relationships



A car is traveling at a given speed over a stretch of highway. You can find the distance the car travels by multiplying its speed by the amount of time it travels.

1. Car A travels at a speed of 30 miles per hour (mph). Car B travels at 60 miles per hour. Complete the tables to find the distance each car travels for the given times.

Car A	
Speed: 30 mph	
Time (hr)	Distance (mi)
0	0
1	30
2	
3	
4	

Car B	
Speed: 60 mph	
Time (hr)	Distance (mi)
0	
1	
2	
3	
4	

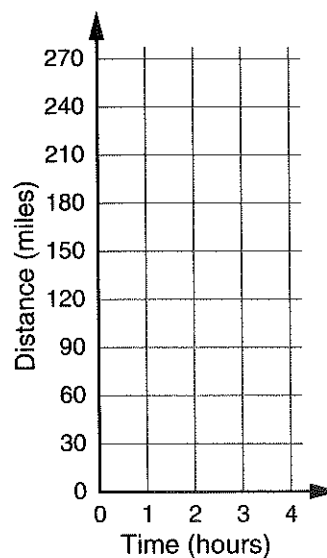
2. For each car, write the rule that is used to find the distance.

Car A:

Car B:

3. Use the tables to write a set of ordered pairs in the form (Time, Distance) for each car. Then graph the data and connect the points for each car. Label each graph.

Car A	Car B
(0,0)	_____
(1,30)	_____
_____	_____
_____	_____
_____	_____



4. As the amount of time increases, explain how the distance Car B travels compares with the distance Car A travels?
