



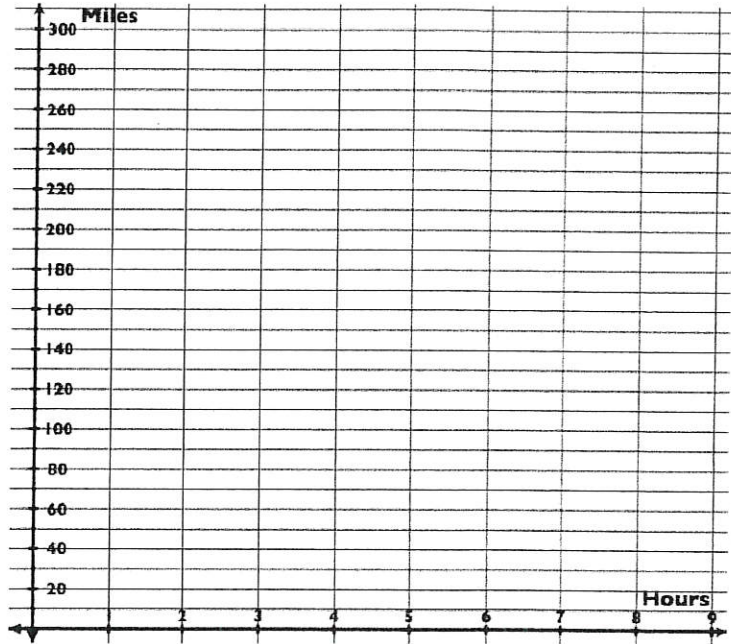
Name _____

Mac & Tolley's Road Trip

For both cars, complete the data table, make a graph and write an equation.

Mr. Mac and Ms. Tolley are both taking road trips to LA. Mr. Mack (in his red Toyota) started 50 miles from San Jose and drives at an average speed of 30 mph. Ms. Tolley (in her blue Chevy) started 10 miles from San Jose and drives at an average speed of 40 mph.

Hours	Red Car's Miles	Blue Car's Miles
0		
1		
2		
3		
4		
5		
6		
7		
8		



Mr. Mac's (red car) Equation: _____ Ms. Tolley's (blue car) Equation: _____

- Who will get to LA first? *How do you know?* _____
HINT: It is approximately 300 miles from San Jose to LA.
- When will the two cars be next to each other on the freeway? _____
- How far from San Jose will they be when they meet? _____
- Find the answer to questions 2 and 3 by using your **equations**. Show all work.



LOS ANGELES

5. The organizers of a walkathon get cost estimates from two printing companies to print brochures to advertise the event. The costs are given by the equation below, where C is the cost in dollars and n is the number of brochures.

Company A: $C = 15 + 0.10n$

Company B: $C = 0.25n$

- A. What information does the y -intercept represent for each equation?
- B. What information does the coefficient of n represent for each company?
- C. For what number of brochures are the costs the same for both companies? Use your equations to answer this question. Show work.
- D. The organizers have \$65 to spend on brochures. How many brochures can they have printed at both companies? Show work.

Walk-a-thon

