

# Proportional Relationships and Graphs - CENTER #6

Complete each table for Exercises 1 and 2. Tell whether each relationship is a proportional relationship. Explain why or why not.

1. A student reads 65 pages per hour.

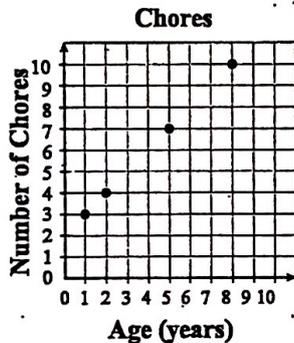
Time (h)	3	5		10
Pages			585	

2. A babysitter makes \$7.50 per hour.

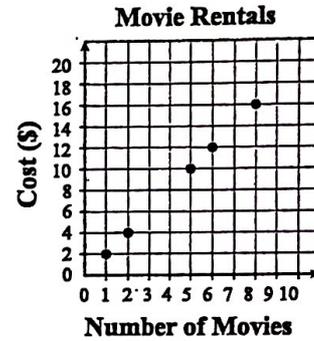
Time (h)	2		5	
Earnings		22.50		60

For Exercises 3 and 4, tell whether the relationship is a proportional relationship. Explain why or why not.

3.



4.



5. A train travels at 72 miles per hour. Will the graph of the train's rate of speed show that the relationship between the number of miles traveled and the number of hours is a proportional relationship? Explain.

Use this graph showing the relationship between time and the distance run by two people for Exercises 6-9.

6. How long does it take each person to run 1 mile?

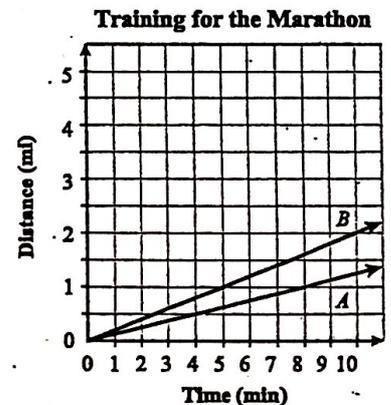
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7. What does the point (0, 0) represent?

\_\_\_\_\_

8. Write an equation for the relationship between time and distance.

\_\_\_\_\_



9. Draw a line on the graph representing someone who is faster than either of these runners.