



EVERYDAY MATHEMATICS

STUDY LINK SUPPORT

Rates compare two amounts that have different units. For example, a store might sell apples at the rate of 3 apples for 75 cents (comparing apples with cents) or a car's gasoline mileage might be 180 miles for every 10 gallons (comparing miles with gallons).

These comparisons can be written as fractions: $\frac{3 \text{ apples}}{75 \text{ cents}}$ $\frac{180 \text{ miles}}{10 \text{ gallons}}$

A rate tells how many of one thing there are for a certain number of another thing. Rates often contain the word *per*, meaning “for each” or “for every.”

Study Link Tips:

- Constructing rate tables is one way to solve these problems. *Note that some of the problems on this Study Link require more than one rate table.*

Have your child think about the known information and the unknown information—the information that needs to be figured out. Organize the information in a rate table.

Example 1

I earn **\$10 in one day**. I enter this information in the rate table. I use the relationship of 10 *per* 1 to figure out how much I earn in 2 days, 3 days, and so on.

Earnings	\$10	\$20	\$30	\$50
Days	1	2	3	5

Example 2

Sometimes the information given in the problem does not involve a rate of one *per* something. First ask your child to figure out *the one to something* rate.

A car goes **180 miles on 10 gallons of gas**. I enter this information in the rate table. I figure out how far it will go on 1 gallon by dividing both numbers by 10 (the number of gallons). I can use a rate table to help me find other comparisons.

1 gallon *per* 18 miles



Miles	18	54	180	360
Gallons	1	3	10	20



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- Rate problems are a special kind of “What’s My Rule?” problem. Your child might see the connection if you turn the rate table sideways. For more information about the “What’s My Rule?” routine, see *Student Reference Book* pages 162-166.

Example

Rule
Earn \$10 per day

Total Earnings	Number of Days
\$10	1
\$20	2
\$30	3
\$40	4

Extra Practice:

- Consider having your child solve or create “What’s My Rule Problems.” See *Student Reference Book* pages 162-166 for more information.
- Make up rate problems of your own. Encourage your child to make a rate table to solve the problems.