LESSON 12·2 Rate Tables

For each problem, fill in the rate table. Then answer the question below the table.

1. Bill's new car can travel about 35 miles on 1 gallon of gasoline.

Gasoline mileage: 35 miles per gallon

Miles	35							
Gallons	1	2	3	4	5	6	7	8

At this rate, about how far can the car travel on 7 gallons of gas? _____ miles

2. Jennifer earns $8 for every 4 hours she helps out around the house.

Earnings: $8 in 4 hours

Dollars				8				
Hours	1	2	3	4	5	6	7	8

At this rate, how much money does Jennifer earn per hour? $_____

3. A gray whale's heart beats 24 times in 3 minutes.

Gray whale's heart rate: 24 beats in 3 minutes

Heartbeats			24					
Minutes	1	2	3	4	5	6	7	8

At this rate, how many times does a gray whale's heart beat in 2 minutes? _____ times

4. Ms. Romero paid $1.80 for 3 pounds of grapes.

Cost of grapes: 3 pounds for $1.80

Pounds	1	2	3	4	5	6	7	8
Dollars			1.80					

At this rate, how much do 5 pounds of grapes cost? $_____

LESSON 12·2   **Rate Tables** *continued*

5. Malia bought 6 yards of fabric for $15.00.

Cost of fabric: 6 yards for $15.00

Dollars						15.00		
Yards	1	2	3	4	5	6	7	8

At this rate, how much will $7\frac{1}{2}$ yards of fabric cost? $ _____

6. Alden bought $\frac{3}{4}$ of a pound of cheese for $6.

Cost of cheese: $\frac{3}{4}$ of a pound for $6

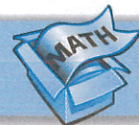| Pounds	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$	2
Dollars			6					

At this rate, how much will $1\frac{1}{4}$ pounds cost? $ _____

Try This

7. The Jefferson family plans to sit down to Thanksgiving dinner at 6:00 P.M. They have an 18-pound turkey. The turkey needs to cook about 20 minutes per pound.

a. At what time should the turkey go in the oven? _____

b. Explain what you did to solve the problem.

_____

_____

_____

_____

LESSON 12·2

Math Boxes

1. a. Complete the table.

Number of Pizzas	1	2		4	5
Number of Servings	3		9	12	

  b. How many pizzas are needed for 279 servings?

  _____ pizzas

  SRB 47

2. Complete.

  a. 3 gal = _____ qt

  b. 5 L = _____ mL

  c. _____ L = 750 mL

  d. _____ pt _____ c = 23 c

  e. 64 gal = _____ pt

  SRB 137

3. Find the solution of each open sentence.

  a. $m + 40 = -60$ $m =$ _____

  b. $55 + q = 40$ $q =$ _____

  c. $(-23) + s = 0$ $s =$ _____

  d. $p + (-36) = -80$ $p =$ _____

  SRB 148

4. Complete the name-collection box.
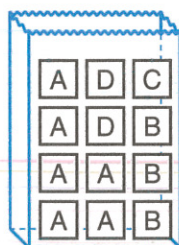
  8.01

  SRB 149

5. Fill in the blank with one of the words below.

  impossible

  unlikely

  likely

  Without looking, it is _____ that a B block will be pulled from the bag.

A	D	C
A	D	B
A	A	B
A	A	B

  SRB 80

6. Calculate.

  a. 10% of 460 = _____

  b. 5% of 120 = _____

  c. 40% of _____ = 4

  d. _____ % of 20 = 6

  e. _____ % of 92 = 46

  f. _____ % of 150 = 57

  SRB 38 39

STUDY LINK 12·2 **Rates**

Solve the problems.

1. Hotels R Us charges $45 per night for a single room.
   At that rate, how much does a single room cost *per week*? $_____

2. The Morales family spends about $84 each week for
   food. On average, how much do they spend *per day*? $_____

3. Sharon practices playing the piano the same amount
   of time each day. She practiced a total of 4 hours
   on Monday and Tuesday combined. At that rate,
   how many hours would she practice *in a week*?   _____ hours

Hours							
Days	1	2	3	4	5	6	7

Try This

4. People in the United States spend an average of 6 hours and 4 minutes
   each week reading newspapers.

   a. That's how many minutes *per week*?   _____ minutes per week

   b. At that rate, how much time does an average
      person spend reading newspapers in a *3-day period*?   _____ minutes

Minutes							
Days	1	2	3	4	5	6	7

Practice

5. _____ = 24 ∗ 379   6. 870 ∗ 63 = _____

7. 652 ÷ 8 = _____   8. 546 ÷ 42 = _____