Liquid Measures

Home Link 7-1

DATE TIME

Find at least one container that holds each of the amounts listed below. Describe each container and record all the measurements on the label.



(1) About 1 gallon

Container	Liquid Measurements on Label
jug of orange juice	gallon, 3.78 L

(2) About 1 quart

Container	Liquid Measurements on Label
container of milk	l quart, 32 fl oz

(3) About 1 pint

Container	Liquid Measurements on Label

(4) About 1 cup

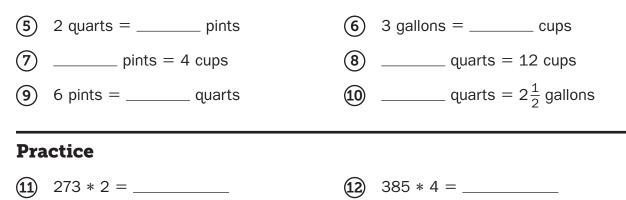
Container	Liquid Measurements on Label

(14)

Complete.

(13)

_____ = 886 * 5



_____ = 98 * 38

Sugar in Drinks

Home Link 7-2

NAME

DATE TIME

SRB 160-161, 196-197

Use the information in the table to solve the number stories. In the space below each problem, use pictures or equations to show what you did to find your answers.

Amount of Sugar in Drinks			
Drink Sugar Content (in cups) Serving Size (in ounc			
Cranberry juice cocktail	$\frac{1}{4}$	12	
Fruit punch	$\frac{1}{4}$	12	
Orange soda	$\frac{1}{4}$	12	
Sweet tea	$\frac{1}{6}$	12	

Sources: National Institutes of Health and California Department of Public Health

(1) Carmen drinks one 12-ounce can of orange soda every day. How much sugar is that

in 1 week? _____ cup(s)

(2) If you drink one 12-ounce glass of cranberry juice cocktail every morning, how much

sugar will that be in 2 weeks? _____ cup(s)

(3) Mike drinks three 12-ounce servings of sweet tea per day.

a. How much sugar is he drinking in his tea in 1 day?

_____ cup(s)

b. In 5 days? _____ cup(s)

4	951 * 4 =	(5)	650 * 5 =
6	425 * 7 =	7	3,684 * 6 =

	ultiplying Unit	Home Link 7-3	DATE	TIME
	e a multiplication equation to describe each p	icture or story.		SRB
1		$\Big)$		171-174
	Multiplication equation:			
	What is the fourth multiple of $\frac{1}{5}$?			
2				
	Multiplication equation:			
	What is the third multiple of $\frac{1}{10}$?			
3	Dmitri fixed a snack for 5 friends. Each frien avocados did Dmitri use?	d got $\frac{1}{2}$ of an avocado.	How man	y

Multiplication equation:

Answer: ______ avocado(s)

Juanita made 3 protein shakes. All together, she used 1 cup of protein powder to make them. Each had the same amount.

How many cups of protein powder are in each shake?

Multiplication equation: _____

Answer: _____ cup(s)



Multiplying Fractions by Whole Numbers

DATE	TIME
	DATE

Solve the problems below.

(1)
$$5 * \frac{1}{5} =$$

Draw a picture.

(2) $3 * \frac{4}{q} =$ _____

Draw a picture.

 $(3) \quad 6 * \frac{3}{6} =$ _____

Draw a picture.

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Write a multiplication equation to represent the problem and then solve.

(4) Rahsaan needs to make 5 batches of granola bars. A batch calls for $\frac{1}{2}$ cup of honey. How much honey does he need? Equation: _____

(5) Joe swims $\frac{6}{10}$ of a mile 5 days per week. How far does he swim every week?

Equation: ______ How far would he swim if he swam every day of the week?

Equation: _____

6 653 * 3 =	(7) 262 * 8 =
8) 357 * 9 =	(9) 7,376 * 2 =

N	ultiplying Mixed umbers by Whole umbers
Solv	/e. SRB
1	Michelle's grandmother sent her 5 small gifts for her fifth birthday. Each one weighed $1\frac{1}{2}$ pounds. How much did the gifts weigh all together?
	Number model with unknown:
	Answer: pounds
	Between what two whole numbers is this? and
	How many ounces did the gifts weigh? ounces
2	Rochelle bought 4 pieces of ribbon to finish a project. Each piece was $1\frac{5}{12}$ yards long. What is the combined length of the ribbon she bought?
	Number model with unknown:
	Answer: yards
	Between what two whole numbers is this? and
	How many feet is this? feet
3	$3 * 4\frac{5}{6} = $
	Between what two whole numbers is this? and
(4)	$6 * 7\frac{3}{8} = $
\bigcirc	0
	Between what two whole numbers is this? and
Pra	actice
5	$\frac{3}{4} + \frac{2}{4} + \frac{1}{4} = \underline{\qquad} \qquad $
7	$\frac{5}{6} - \frac{2}{6} = \underline{\qquad} \qquad $

Fruit Salad Weight

Home Link 7-6

TIME

DATE

ſ	SRR
1.	\sim
	172-174
U	173-174

salad with 8 pears, 2 cups of grapes, and 4 pints of strawberries. Use the weights below to solve the problems.

Mr. Chou makes fruit salad that he sells in his store. Today he plans to make a fruit

- A medium pear weighs about $\frac{3}{8}$ lb.
- A cup of grapes weighs about $\frac{2}{8}$ lb.
- A pint of strawberries weighs about $\frac{5}{8}$ lb.

Write a multiplication sentence to show how much the pears weigh.

Answer: _____ pound(s)

2 Write a multiplication sentence to show how much the grapes weigh. _____

Answer: _____ pound(s)

3 Write a multiplication sentence to show how much the strawberries weigh.

Answer: _____ pound(s)

(4) How much does Mr. Chou's salad weigh in all? Show your work.

Answer: _____ pound(s)

Practice

(5) 361 / 8 = _____

6	396÷	7 =	
---	------	-----	--

7 963 / 5 =	8	633 / 4 =
-------------	---	-----------

Division Number Stories

Solve. Show your work.

Home Link 7-7		
NAME	DATE	TIME

Solv	e. Show your work.	SRB
(1)	Robert and Jason want to buy a group ticket package for football games.	111-115
•	Package A costs \$276 and includes 2 tickets for each of 6 games. Package B co	osts
	\$336 and includes 2 tickets for each of 8 games. Which package charges more	per
	ticket? How much more per ticket?	

Package _____ charges \$____ more per ticket.

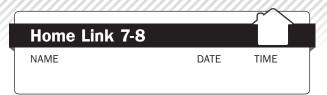
Rebecca wants to put 544 pennies in a coin-collection book. The blue book fits (2) 9 pennies per page. The red book fits 7 pennies per page. How many more pages would she need if she used the red book rather than the blue one?

The red book will take _____ more pages than the blue book.

What did you do with any remainders you found?

3	754 * 6 =	(4) 906 * 2 =
(5)	= 831 * 7	6 = 84 * 29

More Division Measurement Number Stories



SRB 111-115,

Read each number story. Use the information to write a number model with an unknown and then solves.

Kelly is in charge of bringing water for her softball game. The 8 members of the team have matching team water bottles that hold 500 mL. Kelly buys 5 liters of water at the store. If she fills all the bottles, how many milliliters of water will Kelly have left?

Number model with unknown: ____

(1)

Answer: _____ milliliters

2 The distance around all the bases in softball is 72 meters. If Kelly hits 2 home runs and runs around the bases twice, how many millimeters will she run?

Number model with unknown: _____

Answer: _____ millimeters

(3) In women's softball the pitcher stands about 13 meters from the batter's box. In men's softball the pitcher stands about 1,400 centimeters from the batter's box. About how many more centimeters is it from the men's pitcher to the batter's box than from the women's pitcher to the batter's box?

Number model with unknown: _____

Answer: About _____ centimeters

- (4) The 6 games Kelly's team played took a total of 7 hours.
 - a. How many minutes total did they play softball?

Number model with unknown: _____

Answer: _____ minutes

b. If each game lasted the same amount of time, how many minutes did each one last?

Number	model	with	unknown:	
			•••••••••••	

Answer: _____ minutes

(5) $1\frac{3}{6} + 2\frac{1}{6} =$ _____ **(6)** $4\frac{3}{5} + 5\frac{4}{5} = \underline{\qquad}$ (8) $6\frac{1}{3} - 2\frac{2}{3} =$ $7 7\frac{5}{12} - 2\frac{3}{12} =$

					\sim
		Ho	me Link 7-9		
Pe	erimeter Patterns	NAM	E	DATE	TIME
	e was making squares out of toothpicks. noticed a pattern involving the length of one		Side Length	Perimeter	SRB 200-201, 58-59
	and the perimeter of the square. Complete t	he	1	4	
table	e and then answer the questions that follow.		2		
				12	
			4		
				20	
(1)	What rule describes the relationship betwee of a square?	n the I	ength of one s	ide and the p	perimeter
2	What would be the perimeter of a square wi	th a si	de length of 25	o toothpicks?	
	toothpicks				
3	What would be the side length of a square w	with a	perimeter of 50	0 toothpicks	?
	toothpicks				
(4)	Describe at least two other patterns you no	tice in	the table		
\bigcirc					
Pra	octice				
(5)	753 ÷ 3 = 6		= 386	÷ 2	
(7)	$283 \div 9 \rightarrow __\ (8)$	505 -	÷ 6 →		

Fitness Challenge

Home Link 7-10

Use the information in the table below to solve the number stories.



During Marcy School's 2-week challenge, each student who meets a goal wins a prize.

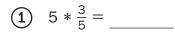
	Marcy's Fitness Challenge Goals			
	Activity	Total Distance	Activity	Total Distance
	Walking	6 miles	Bike Riding	6 miles
	Swimming	1 mile	Running	4 miles
1	Tony will run $\frac{1}{2}$ mi	le after school each da	y. Will he win a prize? _	
	a. Distance run ir	1 week:	mile(s) b. In 2 weeks	: mile(s)
	Explain how you f	ound your answer.		
2) Three times a week, Tina walks $\frac{3}{10}$ mile from school to the library, studies for 1 hour, and then walks $\frac{4}{10}$ mile home. How much more will she need to walk to win a prize?			ry, studies for 1 hour, walk to win a prize?
	Explain how you found your answer.			
_				
Pra	ctice			
3	642 ÷ 2 =	(4) 386 / 9 →	
5	739 / 5 →	(6) 4)829 →	

Fractions and Mixed Numbers

Home Link 7-11			
NAME	DATE	TIME	

SRB

Solve. Draw a picture or show how you solved the problem.



- (2) _____ = $4\frac{2}{6} 2\frac{4}{6}$
- $(3) \quad 5\frac{7}{8} + 3\frac{1}{8} = _$

(4) ____ = 3 * $4\frac{1}{4}$

(5) The combined weight of an assortment of fruit is $8\frac{3}{4}$ pounds. When the fruit is on a tray, the tray weighs $10\frac{1}{4}$ pounds. How many pounds does the tray weigh when empty? _____ pound(s)

How many ounces does the tray weigh when empty? _____ ounce(s)

6
$$\left(3 * 2\frac{2}{3}\right) + \left(2 * 4\frac{1}{3}\right) =$$

Practice

(7) 3)350
(8) 6)832
(9) 7)295
(10) 9)582

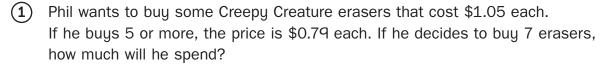
Shopping for Bargains

Home Link 7-12

NAME

DATE TIME

Solve each number story and show how you solved the problems.



Answer: \$_____



Mrs. Katz bought 3 pounds of apples and a muffin for snacks. The apples cost \$2.59 per pound if you buy less than 3 pounds and \$2.12 per pound if you buy 3 or more pounds. The muffin cost \$1.95. How much did she spend?

Answer: \$_____

Try This

(3) Mrs. Katz paid with a \$10 bill. How much change did she get back?

Answer: \$_____

Practice

Fill in the blanks with >, <, or =.

 (4)
 0.55
 0.65
 (5)
 0.3
 (6)
 0.72
 0.8
 (7)
 0.4
 0.31



ſ	SRB
	166-167,

Pencil Lengths

Home Link 7-13		
NAME	DATE	TIME

At the beginning of the year Mrs. Kerry gave each student in her class a new pencil with "Welcome to 4th Grade" written on it. A month later the class measured their pencils to the nearest $\frac{1}{8}$ inch.

SRB	
215	l

Pencil Lengths to the Nearest $\frac{1}{8}$ inch

												$2\frac{4}{8}$
2 <u>3</u> 8	2 7 8	1 7 8	3 ² / <u>8</u>	2 7 8	$3\frac{4}{8}$	2 <u>6</u> 8	2 3 8	3 <u>1</u> 8	2	2 <u>4</u> 8	2 <u>5</u> 8	3 ² / <u>8</u>

Plot the data set on the line plot.

Title:

Pencil Lengths

(continued)

Home Link 7-13

216

Use the completed line plot to answer these questions.
(1) How many students have a pencil that is shorter than 2⁷/₈ inches?
_______ students
(2) What is the most common pencil length? _______ inches
(3) a. How many pencils are less than 2²/₈ inches long? ______ pencils
b. What is their combined length? ______ inches

- (4) **a.** How many pencils are between $2\frac{7}{8}$ and $3\frac{2}{8}$ inches long? _____ pencils
 - b. What is their combined length? _____ inches
- **a.** How long is the longest pencil? ______ inches **b.** How long is the shortest pencil? ______ inches **c.** What is the combined length of the longest and shortest pencils? ______ inches **d.** What is the difference in length of the longest and shortest pencils? ______ inches

