HOME LINK **Multiplication Number Stories**

Today your child learned about another tool to use when solving number stories, a Family multiplication/division diagram. It can help your child organize the information in a number Note story. With the information organized, your child can decide which operation (\times , +) will solve the problem. Refer to pages 259 and 260 in the Student Reference Book for more information.

Please return this Home Link to school tomorrow.

For the number story:

Name

4+

- Fill in a multiplication/division diagram. Write ? for the number you will find. Then write the numbers you know.
- Use counters or draw pictures to help you find the answer.
- Write the answer and unit. Check whether your answer makes sense.
- 1. Elsa buys 5 packages of apples for the party. There are 6 apples in each package. How many apples does she have?

(unit)

Answer:

Does your answer make sense?

2. Find equal groups of objects in your home, or around your neighborhood. Record them on the back of this page. Examples

3 lights on each traffic light, 12 eggs per carton

3. Write a multiplication number story about one of your groups. Use the back of this paper. Solve the number story.

packages	apples per package	apples in all





Time





Name	Dat	e							7	Tim	<u>ie</u>				
HOME LINK 4+2	Arrays							(D		Ş			
Family Note	Your child is learning how to represent multipli An array is a group of items arranged in equal counters, such as pennies or macaroni, to build child should record each solution on the dots r <i>Please return this Home Link to school tomorrow.</i>	rows I the	anc arra	d eq ay ir	jual 1 ea	col ch j	umr prol	ns. I	Help	o yo	our		rays d us SR 64 (5. Se B 55	
of items a columns, magazine	ext few weeks, look for pictures rranged in equal rows and or arrays. Look in newspapers or s. Have people in your family help ain that your class is making an hibit.	• • • • •	• • •	• • • •	• • • •	• • • •	• • • •	T a T	here re 6 here	e ar do e ar	re 5 ts ir re 30	9y-6 row 1 ea 0 do = 3	rs. T ch r ots ir	her ow.	•
Make an a	array with counters. Mark the dots	to s	ho	w	the	e a	rra	ıy.							
	with 6 counters per row -6 array		•	•	•	•	•	•	•	•	•	•	•	•	
	counters		•	•	•	•	•	•	•	•	•	•	•	•	
	with 8 counters per row 8 array counters		• •	• •	•	• •	• •	• •	•	•	•	•	•	•	
3. 2 rows	with 12 counters per row		•	•	•	•	•	•	٠	•	•	•	•	•	
	12 array		•	•	•	•	•	•	•	•	•	•	•	•	
			٠	•	•	٠	•,	•	•	٠	٠	•	•	•	
	counters		٠	٠	٠	٠	•	٠	•	•	٠	٠	•	٠	

Write these problems on the back of this page. Solve. Show your work.

4. 331 + 27 = _____ **5.** _____ = 187 + 17 **6.** 907 - 479 = _____

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Unit

	· · · · · ·	Date	Time
HOME LINK 4 +3	Division with Co	ounters	
Family Note	Your child is beginning to use division such as uncooked macaroni or pennies to understand the meaning of division <i>Please return this Home Link to school to</i>	s, to represent each probl	A first step is to use counters, em. This helps your child
	neone at home how to do div or other counters.	vision using pennie	es, uncooked
1. 25 cou by 5 pe	nters are shared equally eople.	 25 counters a by 10 people 	are shared equally
	counters per person	count	ters per person
	counters remaining	count	ters remaining
=	s in January per week	4. 22 children 5 children pe	r team
	weeks in January	team	S
	days remaining	childr	en remaining
	air has 34 pencils to give to can she give each student?		How many
	pencils per	ncils left over	
	shared 22 jelly beans with h h child get?	is sister. How mar	ny jelly beans
	jelly beans jell	y beans left over	
Practice		<u></u>	
• ··· • • • • • • • • • • • • • • • • •	e problems on the back of the	nis page. Solve. S	how Unit
7	= 614 - 37 8. 23 + 8	=	. L .

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85

stamps

in all

cookies

How many cookies were left over? _

3. A sheet of stamps has 46 stamps. A complete row has 10 stamps. How many complete rows are there?

complete rows

How many stamps were left over? _____ stamp(s)

··· · · ·		
		· · · · · · · · · · · · · · · · · · ·
A		
ワー		
)	.)

stamps

per row

complete

rows

Use counters or draw pictures to show someone at home how you can use division to solve number stories. Fill in the diagrams.

1. Jamal gave 24 marbles to 4 friends. Each friend got the same number of marbles. How many marbles did each friend get?

friends	per friend	in all

marhles

marbles

How many marbles were left over? _____ marble(s)

2. Ellie had 29 cookies to put in 14 lunch bags. She put the same number in each bag. How many cookies did she put in each bag?

bags	cookies per bag	cookies in all

Family Help your child solve the division number stories by using counters such as pennies or Note

uncooked macaroni to model the problems. Refer to pages 73, 74, 259, and 260 in the Student Reference Book. Your child is not expected to know division facts at this time. Please return this Home Link to school tomorrow.

Division Number Stories

HOME LINK

Name

Δ+Δ



Time

Date

Name	Date	Time
HOME LINK 4.5	Multiplication-Fact Shortcuts	
Family Note	Your child is learning the basic multiplication facts. Listen to your child explate fact shortcuts as he or she works the problems. Review some 1s, 2s, 5s, and multiplication facts (facts like $1 \times 3 = ?$, $? = 2 \times 4$, $5 \times 5 = ?$, and $10 \times 4 =$ <i>Please return this Home Link to school tomorrow.</i>	10s
Tell some	one at home about multiplication-fact shortcuts.	6
	round rule: $3 \times 4 = 12$ helps me know $4 \times 3 = 12$.	
1. 2×5	= and 5 × 2 =	
2	= 5 \times 3 and = 3 \times 5	
3. 10 × 2	= and 2 × 10 =	
The same 4.	iplied by any number, the product is that number. is true if any number is multiplied by 1. = 1×9 and = 9×1 = and $90 \times 1 =$	
6. 365 ×	1 = and 1 × 365 =	· · · · ·
	plied by any number, the product is 0. is true if any number is multiplied by 0.	
7. 0×12	= and 12 × 0 =	
B. 99 × 0	= and 0 × 99 =	
9	= 9,365 \times 0 and = 0 \times 9,365	
Think abou	t counting by 2s, 5s, and 10s.	
	11. 5 12. 9 13. 2 14. 5 1 \times 4 \times 2 \times 7 \times 3 \times 3 1	-

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HOME LINK

4+6

Date



Family Note Fact Triangles build mental-math reflexes. They are the *Everyday Mathematics* version of traditional flash cards. Fact Triangles are better tools for memorizing, however, because they emphasize fact families.

A **fact family** is a group of facts made from the same 3 numbers. For 6, 4, and 24, the multiplication and division fact family is $4 \times 6 = 24$, $6 \times 4 = 24$, $24 \div 6 = 4$, $24 \div 4 = 6$.

Use Fact Triangles to practice basic facts with your child. Cut out the triangles from the two attached sheets.

To practice multiplication:

Cover the number under the large dot-the product.

×, ÷ Fact Triangles



Your child should name one or two multiplication facts: $3 \times 5 = 15$, or $5 \times 3 = 15$.

To practice division, cover one of the smaller numbers.



Your child should name the division fact $15 \div 5 = 3$.



Your child should name the division fact $15 \div 3 = 5$.

If your child misses a fact, flash the other two problems and then return to the fact that was missed. *Example:* Ravi can't answer $15 \div 3$. Flash 3×5 , and then $15 \div 5$, and finally $15 \div 3$ a second time.

Make this activity brief and fun. Spend about 10 minutes each night for the next few weeks, or until your child learns them all. The work you do at home will support the work we are doing at school.

Please return the second page of this Home Link to school tomorrow.





Name		Date		Time
HOME LINK	Arrays and	Areas	······································	
Family Note	Your child uses the same pro the number of dots in an arr an array with 4 rows of 8 do has two sides that have 4 do for Problem 4. <i>Please return this Home Link</i>	ray. For Problem 3 it do ots or 8 rows of 4 dots. V ots and two sides that h	es not matter whether y What is important is tha	our child drav t the array
Make a do	ot inside each small s	square in one row	v. Then fill in the	blanks.
Numbe	er of rows: er of squares in a rov er model: ×			
Area: _	square units			
Numbe Numbe	er of rows: er of squares in a rov er model: × square units			
Mark the o	dots to show each ar	ray. Then fill in th	ne blanks.	
•	a 4-by-8 array. er model: ×	=	 • •<	• •
4. Make a	a 9-by-5 array. er model: $ imes$		• • • • • •	

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Name

Date

Time

4.9 Using a Map Scale

Family Note Note Your child is just learning how to use a map scale. He or she should use the scale to measure an as-the-crow-flies estimate for each problem. This expression refers to the most direct route between two points, disregarding road distance. Actual road distances are longer than these direct paths.

Please return this Home Link to school tomorrow.

For each question, circle all reasonable answers. (There may be more than one reasonable answer.) All distances are as the crow flies. Be sure to use the map scale on the next page.

1. About how many miles is it from New York to Los Angeles?

about 1,000 miles

more than the distance from Chicago to Dallas

about 2,400 miles

 About how many miles is it from Chicago to Atlanta? about 600 miles

more than the distance from Chicago to Seattle less than the distance from Chicago to Denver

 About how many miles is it from Seattle to Dallas? about 2,600 miles

about 5,000 miles

more than the distance from New York to Chicago

About how many miles is it from New York to Atlanta?
 less than the distance from Denver to Atlanta
 more than the distance from New York to Portland
 about 750 miles

Name	Date	Time
4.10 A Fair Game?		
Eamily The class is exploring probability Play	Pock Papar Scissors wit	h your child After 20

obability. Play Rock, Paper, Scissors with your child. After 20 rounds, have your child decide whether the game is fair and tell you why or why not. Note (A game is fair if all players have an equal chance of winning or losing.) Please return this Home Link to school tomorrow.

Play the game Rock, Paper, Scissors with someone at home. Play at least 20 times. Keep a tally of wins and losses.

Rock, Paper, Scissors

□ players' hands **Materials**

2

Players

Object of the Game To choose a hand position that beats your partner's choice.

Directions

- 1. Each player hides one hand behind his or her back and puts it in the rock, paper, or scissors position.
- 2. One player counts, "One, two, three."
- 3. On "three," both players show their hand positions.
- 4. Players choose the winner according to these rules.







Paper covers rock.

Paper wins.

Scissors cut paper.

Scissors wins.

If both players show the same position, no one wins.

1. Is this a fair game? (Fair means each player has the same chance

of winning.) _

Rock dents scissors.

Rock wins.

2. On the back of this paper, explain why or why not.



rock

