Measuring Fingers

Home Link 8-1		
NAME	DATE	TIME

Family Note Today your child measured objects to the nearest $\frac{1}{4}$ inch by using $\frac{1}{8}$ -inch markings on a ruler to determine which $\frac{1}{4}$ -inch mark was closer to the end of the object. When measuring an item, if one end is lined up with the 0 mark and the other end is to the right of the $\frac{1}{8}$ -inch mark, the measure is rounded to the next larger $\frac{1}{4}$ inch. If the end of the item is to the left of the $\frac{1}{8}$ -inch mark, the measure is rounded to the next smaller $\frac{1}{4}$ inch. Help your child trace his or her hand and use the $\frac{1}{8}$ -inch marks on the ruler to measure finger lengths to the nearest $\frac{1}{4}$ inch.

Please return this Home Link to school tomorrow.

(1) Cut out the ruler below. Carefully trace around one of your hands in the space below. Measure the length of each traced finger to the nearest $\frac{1}{4}$ inch. Write the measurement on each finger. Remember to record the unit.



SRB

Extended Facts: Multiplication and Division

Home Link 8-2

DATE TIME

Family Note Today your child learned to use basic multiplication facts, such as $4 \times 6 = 24$, to solve extended multiplication facts, such as 4×60 , by thinking of groups of ten. For example, 4×60 can be thought of as 4×6 [10s]. If you know that $4 \times 6 = 24$, then you also know that 4×6 [10s] = 24 [10s] or 240. The same approach works for extended division facts like $120 \div 3 = 40$. If you know that $12 \div 3 = 4$, then you also know that $12 [10s] \div 3 = 4$ [10s] or 40. The extended Fact Triangles below work the same way as the basic Fact Triangles.

NAME

Please return this Home Link to school tomorrow.



(2)	40 =	×	40 =	_ ×
3	72 =	×	72 =	×
C				



(1) The third-grade class is putting on a play. They have 18 chairs for the audience. Jayla and Kevin are in charge of arranging the chairs in equal rows with no chairs left over.

Family Note Today your child found factor pairs for numbers by using basic facts, pictures, and

arrays. For example, 2 and 8 are a factor pair for 16 because $2 \times 8 = 16$.

Please return this Home Link to school tomorrow.

Describe ways that Jayla and Kevin can arrange the chairs.

Use facts, counters, or drawings to help you solve the problems.

List two factor pairs for 18:

Factor Pairs

_____ × ____ = 18

_____ × ____ = 18

How does knowing ways to arrange 18 chairs in equal rows help you find factors of 18?





(4) 150 = _____ × _____

150 = _____ × ____

Home Link 8-3 NAME

DATE

TIME

Making Conjectures and Arguments

Home Link 8-4

DATE TIME

SRB

12-14

Family Note Today your child learned how conjectures and arguments are related. In mathematics, a **conjecture** is a statement that is thought to be true, and an **argument** is the mathematical reasoning used to show whether a conjecture is true or false. In the problem below, children are asked to find two different ways band members can be arranged for marching. Then they are asked to choose which arrangement they think is better. When children are asked to explain the reasoning for their choice, they are being asked to make an argument. Encourage your child to show the mathematical reasoning he or she used in the explanation for which arrangement is better.

NAME

Please return this Home Link to school tomorrow.

 There are 24 members in the school band. The band director wants them to march in rows with the same number of band members in each row. Find two different ways that the band members can be arranged. Draw a sketch that shows each arrangement.

Which way do you think is better? Explain your reasoning.

(2)

Factor Bingo

In Note T 1 1911 1.1 fying factors of gonal, your child

NAME

SRB Look for a product for each factor in the table below on the Factor Bingo 240-241 game mat. Circle the product on the game mat and record it next to the factor in the table. You can only use each product on the game mat one time. Explain to someone at home how you chose that product. For example, 2 is a factor of 6 because 2×3 equals 6. Call out *Bingo!* if you get five products in a row, column, or diagonal.

Factor	Product	
2	6	
5		
3		
10		
4		
7		
3		
2		
9		
5		
4		
8		

Fact	or Bi	ngo G	ame	Mat
10	8	11	24	23
38	40	6	35	27
21	20	15	90	75
28	17	31	36	45
16	12	18	9	60

Please return this Home Link to school tomorrow.
can call <i>Bingo!</i>
Family Note loday your child learned to play <i>Factor Bingo</i> to practice identif

DATE TIME

Sharing Money with Friends

Home Link 8-6	
NAME	DATI

TIME

SRB

40

Family Note Today your child modeled equal sharing by distributing money amounts into equal groups. Equal sharing is one way to think about division. Work with more formal division algorithms will begin in *Fourth Grade Everyday Mathematics*. In the meantime, encourage your child to solve the following problems in his or her own way and to explain the strategy to you. Have your child model these problems with play money or with slips of paper labeled \$10 and \$1.

Please return this Home Link to school tomorrow.

 Four friends share \$76. They have seven \$10 bills and six \$1 bills. They can go to the bank to get smaller bills.

The letter _____ represents ____

(number model with letter)

Use numbers or pictures to show how you solved the problem:

Answer: Each friend gets a total of \$_____.

Model each sharing problem below. Record your answer.

(2) \$48 ÷ 3 = \$	(3) \$56 ÷ 4 = \$
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Try This

Without calculating, explain how you know that \$90 ÷ 5 would be larger than \$90 ÷ 6.

Locating Fractions

Home Link 8-7

DATE TIME

Family Note Today your child located and plotted fractions on a number line. To plot fractions accurately, children applied their understanding of fraction locations as a distance from 0 to an end point. They also made comparisons to $0, \frac{1}{2}$, and 1 and used equivalence to place fractions. Ask your child to explain how he or she placed the fractions below on the number line.

NAME

Please return this Home Link to school tomorrow.



Making a Prism

Home Link 8-8

DATE

TIME

Family Note Today your child explored attributes of prisms. The pattern on this page can be used to make a prism. Prisms are named for the shape of their bases.

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Please return this Home Link to school tomorrow.

Cut on the dashed lines. Fold on the dotted lines. Tape or paste each TAB inside or outside the shape.



Discuss the following questions with someone at home.

- (1) What shapes are the bases?
- (2) What shapes are the other faces?
- (3) How many faces are there that are not bases?
- What is this 3-dimensional shape called? Remember that prisms are named for the shape of their bases.

