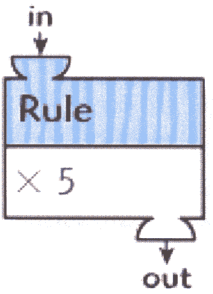
Math Message Lesson 7.1
Turn to page 161 in your new journal.
Find the products in Exercises 1–10.

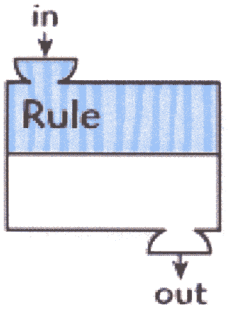
Math Message Lesson 7.2
Each of the following products is a square product.
Fill in the missing factors.

__ × __ = 9 __ × __ = 25 __ × __ = 49 __ × __ = 81

Math Message Lesson 7.3
Fill in the tables. Find the missing rule for the second table.



in	out
3	
	20
7	



in	out
30	10
	6
21	7

Math Message Lesson 7.4
Can you find more than one meaning for each sentence?

Nancy fed Tom the big gray cat.
My sister Tess and Jimmy are going.

Math Message Lesson 7.5
Sheila made two 3-point baskets and
two 2-point baskets in a basketball game.
How many points did she score in all?
Write a number model that contains parentheses.

Math Message Lesson 7.6
The distance around a bicycle racing track is 500 meters.
How far does a bicycle racer travel in 8 laps?

Math Message Lesson 7.7
Pretend you have $6. Do you have enough money
to buy 4 bags of party balloons that cost $1.28 a bag?
Do you have enough to buy 5 bags?

Find the answers without calculating the exact costs.

Math Message Lesson 7.8
Do Problems 1–6 on journal page 178.

Math Message Lesson 7.9
Martha and George were making designs.
Martha's design used 9 three-leaf clovers.
How many leaves did her design have?

George's design had 17 leaves.
What is the least number of three-leaf clovers
he needed for his design?

Math Message Lesson 7.10
Angela multiplied 60×50 and got an answer of 3,000.
Explain how Angela solved the problem.

Math Message Lesson 8.1
Turn to page 182 in your journal.
Do Problems 1 through 5 only.

Math Message Lesson 8.2

Hank said, "I shared 24 pieces of candy with my friends. I gave $\frac{1}{2}$ of the candy to Kim, $\frac{1}{3}$ to Juan, and $\frac{1}{4}$ to Moira."

Explain how you know Hank made a mistake.

Math Message Lesson 8.3

Take a copy of *Math Masters,* page 130.
Cut it on the dashed lines. Make 7 strips.
Then, solve this problem:

Jonah sorted 20 marbles by color.

He found that $\frac{1}{4}$ of them were blue, and $\frac{1}{5}$ were yellow.

Does he have more blue marbles or more yellow marbles?

Be ready to explain how you know.
Use pennies or counters to model the problem if you want.

Math Message Lesson 8.4

Take an envelope. Cut apart the Fraction Cards on Activity Sheets 7 and 8 at the back of your journal. Put them in the envelope.

Math Message Lesson 8.5

Take out your Fraction Cards. Turn them so the picture sides (sides with the shaded parts) are face up.

Find all the fractions that have 1 in the numerator.

Put them in order, from the card with the smallest part shaded, to the card with the largest part shaded.

What pattern do you notice?

Math Message Lesson 8.6

1. Cut out the 4 circles.

2. How would you answer the following problems?

- Emily had 3 apples. She cut one in half and ate one of the halves. How many apples were left?

- Then she cut each of the other whole apples in half. She gave all of the half-apples to her friends. How many half-apples did she give away?

Math Message Lesson 8.7

With your ruler, draw a line segment that is $1\frac{3}{4}$ inches long.

Divide the line segment into $\frac{1}{4}$-inch segments.

How many $\frac{1}{4}$-inch segments are there?

Math Message Lesson 8.8

Frank earned $1 for washing dishes all week.
He spent $0.75 on his favorite candy bar. Frank told his mom that he spent $\frac{75}{1}$ of his money on candy.
Explain Frank's mistake.

Math Message Lesson 9.1

How much might an adult beaver weigh?
Find out on pages 206 and 207 in your journal.

Math Message Lesson 9.2

Could 6 adult harp seals weigh less than 1 ton?
Could they weigh more than 1 ton? (1 ton = 2,000 lb)
Use the information on pages 206 and 207 in your journal.

Math Message Lesson 9.3

Using the fewest number of base-10 blocks possible, show the number 36.

Math Message Lesson 9.4

A farmer planted 4 rows of tomato plants with 28 plants in each row. How many tomato plants did he plant in all?

Math Message Lesson 9.5

Turn to page 241 in your *Student Reference Book.* Estimate whether $10 is enough to buy 4 rolls of gift-wrapping paper.

Math Message Lesson 9.6

You want to pack 24 bottles of juice into cartons. Each carton holds 4 bottles. Can you pack all 24 bottles into cartons so that none are left over?

Math Message Lesson 9.7

What is each person's share if $1 is shared equally among 5 people? If $2 is shared equally among 4 people? $3 among 6 people? $2 among 5 people?

Math Message Lesson 9.8

On journal page 225, answer Problems 4–7 using your calculator. Write the answer the calculator displays. Compare with your answer.

Math Message Lesson 9.9

Solve without a calculator. Show your work.

3×64 5×713 7×376

Math Message Lesson 9.10

Draw base-10 blocks  to record how you would show the numbers 150 and 237 with the fewest number of blocks possible.

Math Message Lesson 9.11

$7 \times 23 =$ ____
$70 \times 23 =$ ____
$4 \times 362 =$ ____
$40 \times 362 =$ ____

Math Message Lesson 9.12

$20 \times 34 =$ _____
$70 \times 48 =$ _____

Math Message Lesson 9.13
Look at the thermometer on page 153 in your *Student Reference Book.*

Which temperature is colder, –5°C or –10°C? +1°C or –14°C? How do you know?

Math Message Lesson 9.14
Explain Lora's mistake in the problem below.

$$\begin{array}{r} 28 \\ \times\ 60 \\ \hline 120 \\ +\ 48 \\ \hline 168 \end{array}$$

Math Message Lesson 10.1
The *inch* is a unit of length.
List as many other units of length as you can.

Math Message Lesson 10.2
Take 10 cm cubes. Read about area on pages 136 and 137 in your *Student Reference Book.*

Math Message Lesson 10.3
A rectangular prism is made of 45 cubes.
If the base has 15 cubes, how many layers
of cubes does the prism have?

Math Message Lesson 10.4
What does *weight* mean? Think about it and be
ready to discuss it. The *pound* is a unit of weight.
List as many other units as you can.

Math Message Lesson 10.5
Review how you have ordered the 4 objects
from heaviest to lightest weight in Part 1
on journal page 251.

Review how you ordered them from
largest to smallest volume in Part 2.

Math Message Lesson 10.6
The *pint* is a unit of measure for liquids such as
milk and juice. List as many other units as you
can that are used to measure liquids.

Math Message Lesson 10.7
Make a bar graph of the data in the table
on page 263 in your journal.

Math Message Lesson 10.8
Look up your last arm-span measurement on journal page 253.
Copy it on a stick-on note and put the note in the box.
Write large! Do not put your name on the note.

Math Message Lesson 10.9
Use your calculator to answer the questions
on Math Message 10.9.

Math Message Lesson 10.10
Look up your last waist-to-floor measurement
on your journal page 253. Write it on the Class
Data Pad. Don't write your name.

Math Message Lesson 10.11
(Select a town on the map that will be fairly difficult for children to find unless they use the index.)

Find (name of town) on the map.

Math Message Lesson 10.12
Take a copy and complete the Math Message problem.

Math Message Lesson 11.1
Take a slip of paper. Answer the questions.

Math Message Lesson 11.2
Suppose you toss three pattern blocks into the air—

a triangle  , a square  , and a trapezoid  .

Which one has the best chance of landing on one of its edges?

Math Message Lesson 11.3
Mary and Joe toss a coin to decide who goes first when they play a game. Is this a fair way to decide?

Explain why or why not on a half-sheet of paper.

Math Message Lesson 11.4
Turn to journal page 286. Follow the directions for the Math Message.

Math Message Lesson 11.5
Do Problem 1 on journal page 290.

Math Message Lesson 11.6
Take a slip of paper. Answer the question.

Math Message Lesson 11.7
There are [fill in the total number] third graders at our school. Guess: About how many know how to swim?

Math Message Lesson 11.8
Find the shortest day (the day with the fewest hours and minutes of sunlight) on the Sunrise/Sunset Chart.

On that day, how many more hours and minutes of darkness were there than hours and minutes of sunlight?

Use your tool-kit clock if you need help.

Math Message Lesson 11.9
Turn to National High/Low Temperatures on journal page 303. Which states appear most often in the list?

Math Message Lesson 11.10
Three yellow blocks and 1 blue block were in a bag. Rita predicted that she would draw out a blue block about $\frac{1}{3}$ of the time.

On a half-sheet of paper, explain why you agree or disagree with Rita.