



# Dazzling Math Line Designs

By Cindi Mitchell

S C H O L A S T I C  
PROFESSIONAL BOOKS

NEW YORK • TORONTO • LONDON • AUCKLAND • SYDNEY  
MEXICO CITY • NEW DELHI • HONG KONG

*To my parents, George and Dorothy Neibler, who encouraged me  
to think of every problem as an opportunity.*

*To my husband, Jim Mitchell,  
who has helped me turn many problems into opportunities.*

*To my children, Ben and Jeannine Mitchell,  
who showed me how to teach others to do so.*



*I would like to thank my editor, Deborah Schecter, for her hard work and guidance  
on this book. She has been there every step of the way to listen, encourage, and celebrate.*

*To borrow my students' favorite phrase, "She's awesome!"*

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Cover design by Pamela Simmons  
Cover photographs by Donnelly Marks  
Interior design by Solutions by Design, Inc.  
Interior illustrations by Cindi Mitchell

ISBN 0-590-00086-1

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# Introduction

When I was teaching, my students continually begged me to give them geometric design worksheets to color. I threw up my hands, lamenting that they spent hours coloring designs but wouldn't spend 15 minutes memorizing basic math facts. It was Adam who made this brilliant remark: "Why doesn't someone make designs with math facts in them? Then you could be sure we'd learn them!" This book is for all of your students, like Adam, who are fascinated by art and geometric design and beg for more.

## How to Use This Book

There are three different types of design activities in this book. Teaching tips for each type follow:

**Designs to Color** (pages 8–24) are geometric shapes with basic addition, subtraction, multiplication, and division problems inside them. Students solve the problems, then color the shapes based on the answers. The finished designs will make a perfect addition to your math learning center or bulletin board. For these designs, students need a basic eight-pack of crayons or colored pencils. Tell students to solve all of the problems before they start coloring.

In the section **Designs to Create** (pages 25–42), students also solve addition, subtraction, multiplication, and division problems. Then they draw straight lines to connect dots beside the problems to the dots beside their answers. When all of the dots have been connected, beautiful line designs emerge that are suitable for framing. For these designs, students need a

ruler, a sharp pencil, and an eraser. Again, encourage students to solve all of the problems before they start drawing. Tell them to work carefully, as many activities have more answers than problems to be solved.

**Designs to Construct** (pages 44–61) are fun and easy to make. Students complete addition, subtraction, multiplication, and division problems, then color the shapes based on the answers. After coloring the pattern, students simply cut it out, then fold and tape it together. (Easy assembly how-tos are provided on page 43). For these designs, students need a basic eight-pack of crayons or colored pencils, scissors, and tape. The finished products are colorful three-dimensional designs that can be hung on mobiles, used as holiday ornaments, or given as gifts.

Note: It's not necessary for second and third graders to learn the names for complex geometric shapes. But you will no doubt have some students who want to learn these technical definitions. You'll find the term for each construction listed on page 43.

To help you use this book along with your math curriculum, the chart on pages 6–7 organizes the activities by skill area and level. You can see at a glance all of the activities that focus on a specific math skill—for example, subtraction of two-digit numbers without regrouping.

Many of the activity pages include a Taking It Further problem. These problems are designed to challenge students by allowing them to apply the math operation used to complete the main design activity. Answers to these problems can be found on pages 62–64.

Don't let students stop with these activities. Invite them to create their own designs for their classmates to color, create, and construct!

Name \_\_\_\_\_

**ADDITION**  
One and Two Digits, With Regrouping

**Kaleidoscope**

Solve the problems.  
If the answer is between 1 and 30, color the shape red.  
If the answer is between 31 and 99, color the shape gray.  
Finish the design by coloring the other shapes with the colors of your choice.  
Taking It Further: Name two numbers that when added together equal 27.

9

Name \_\_\_\_\_

**DIVISION**  
Three Digits, One Digit

**Wind Seeker**

Solve the problems. Then connect the dot beside each problem on Line B to the dot beside its answer on Line A. One line has been drawn for you. Some dots will not be used.  
Taking It Further: Circle the numbers that can be divided by 3 with no remainder.  
3 5 6 19 23 24 25 27 30 2  
9 11 12 13 17 4 15 7 10

37

Name \_\_\_\_\_

**MULTIPLICATION**  
Three Digits, One Digit

**Ice Crystal**

Solve the problems.  
If the answer is an even number, color the shape orange.  
If the answer is an odd number, color the shape brown.  
For more fun, cut out this design and fold it into a

37

*Cindi Mitchell*



# Skills Matrix

The chart below organizes the activities in this book by skill area.

<b>MATH SKILL</b>	<b>TITLE OF ACTIVITY</b>	<b>PAGE NUMBER</b>
<b>Addition:</b> Two Digits Without Regrouping	Tumbling Boxes	8
<b>Addition:</b> Two Digits Without Regrouping	Ice Cream Cone	25
<b>Addition:</b> Two Digits Without Regrouping	Rainbow Box	44
<b>Addition:</b> Two Digits Without Regrouping	Five-Sided Pyramid	45
<b>Addition:</b> Two Digits With Regrouping	Bewitching Math	26
<b>Addition:</b> One and Two Digits With Regrouping	Kaleidoscope	9
<b>Addition:</b> One and Two Digits With Regrouping	Wave Action	27
<b>Addition:</b> Three Digits Without Regrouping	Addition Fun	47
<b>Addition:</b> Three Digits With Regrouping	Blooming Octagon	10
<b>Addition:</b> Three Digits With Regrouping	Holiday Ornament	48
<b>Addition:</b> Three Addends	Treasure Chest	46
<b>Subtraction:</b> Two Digits Without Regrouping	Super Star	11
<b>Subtraction:</b> Two Digits Without Regrouping	Subtraction Teepee	49
<b>Subtraction:</b> Two Digits With Regrouping	Grandma's Quilt	12
<b>Subtraction:</b> Two Digits With Regrouping	Triangles and More Triangles	50
<b>Subtraction:</b> Two Digits With Regrouping	Optical Illusion	51
<b>Subtraction:</b> One and Two Digits With Regrouping	Stretching Taffy	28
<b>Subtraction:</b> Three Digits Without Regrouping	Boxcar	52
<b>Subtraction:</b> Three Digits Without Regrouping	Box of Many Colors	53
<b>Subtraction:</b> Three Digits With Regrouping	Morning Glory	13
<b>Subtraction:</b> Three Digits With Regrouping	Gemstones	54
<b>Multiplication:</b> Twos	Sunshine	55
<b>Multiplication:</b> Threes	Spectacular Triangle	29
<b>Multiplication:</b> Fours	Hourglass	30
<b>Multiplication:</b> Fives	Rainy Day	31



<b>Multiplication:</b> Sixes	Building Blocks	14
<b>Multiplication:</b> Sevens	Stargazer	15
<b>Multiplication:</b> Eights	Triangle Twister	56
<b>Multiplication:</b> Nines	Star-Struck Multiplication	18
<b>Multiplication:</b> Twos and Fours	Spider's Web	32
<b>Multiplication:</b> Threes and Fives	Sunburst	33
<b>Multiplication:</b> Sixes and Sevens	Space Traveler	16
<b>Multiplication:</b> Sevens and Eights	Locking Boxes	17
<b>Multiplication:</b> Eights and Nines	Lacy Heart	34
<b>Multiplication:</b> Mixed Practice	Power Lines	35
<b>Multiplication:</b> Two Digits x One Digit	Octagon Web	36
<b>Multiplication:</b> Three Digits x One Digit	Ice Crystal	57
<b>Division:</b> Twos	Eye Dazzler	58
<b>Division:</b> Threes	Wind Seeker	37
<b>Division:</b> Fours	Leaning Cube	59
<b>Division:</b> Fives	Exploding Star	19
<b>Division:</b> Sixes	Triangle Patches	60
<b>Division:</b> Sevens	Patchwork Diamonds	20
<b>Division:</b> Eights	Checkerboard Tent	61
<b>Division:</b> Nines	Star Puzzle	21
<b>Division:</b> Mixed Practice	Missing Blocks	22
<b>Division:</b> Twos and Threes	String Tower	38
<b>Division:</b> Fours and Fives	Football	39
<b>Division:</b> Sixes and Sevens	Over and Under	40
<b>Division:</b> Sevens and Eights	Candlelight	41
<b>Division:</b> Two Digits ÷ One Digit With No Remainders	Playing With Blocks	23
<b>Division:</b> Two Digits ÷ One Digit With Remainders	Fireworks	24
<b>Division:</b> Two Digits ÷ One Digit With Remainders	Sparkling Diamond	42

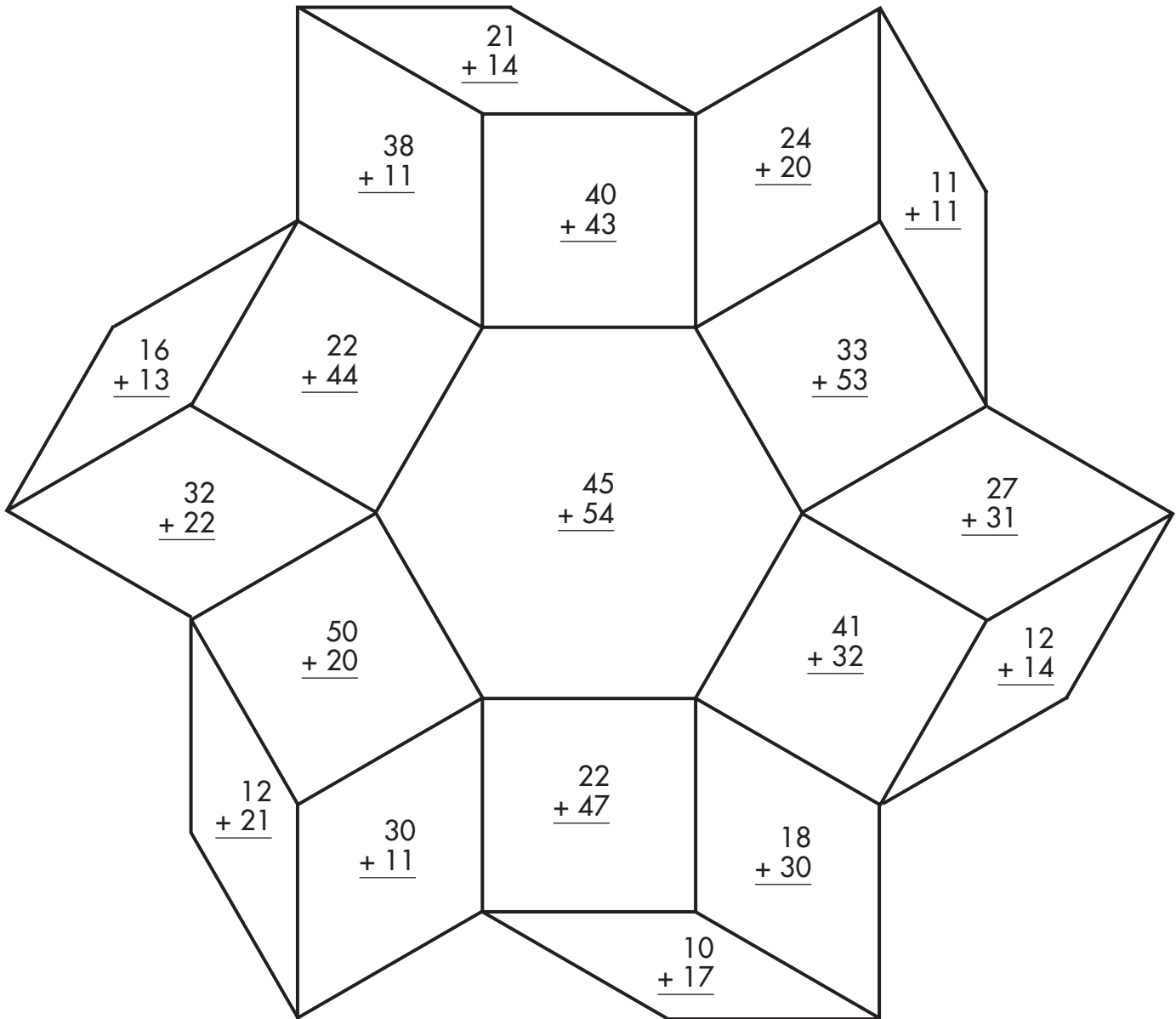
Name \_\_\_\_\_

## ADDITION

Two Digits Without Regrouping



# Tumbling Boxes



Solve the problems. Then color the design with your favorite colors. Here's how:

1. Choose four colors that you like the best.
2. Write the name of one of the colors on each line below.
3. Color the design.

If the answer is between 1 and 35, color the shape \_\_\_\_\_.

If the answer is between 36 and 60, color the shape \_\_\_\_\_.

If the answer is between 61 and 90, color the shape \_\_\_\_\_.

If the answer is between 91 and 100, color the shape \_\_\_\_\_.

*Taking It Further:* Order the answers on this page from largest to smallest.



Name \_\_\_\_\_

**ADDITION**



One and Two Digits With Regrouping

# Kaleidoscope

2  
+ 8

24  
+ 7

32  
+ 9

7  
+ 4

1  
+ 9

17  
+ 9

45  
+ 5

31  
+ 4

22  
+ 13

26  
+ 6

11  
+ 9

11  
+ 7

19  
+ 9

16  
+ 22

31  
+ 11

12  
+ 7

14  
+ 9

4  
+ 8

40  
+ 14

27  
+ 6

41  
+ 21

37  
+ 31

12  
+ 9

16  
+ 5

16  
+ 6

10  
+ 24

20  
+ 21

15  
+ 5

Solve the problems.

If the answer is between 1 and 30, color the shape red.

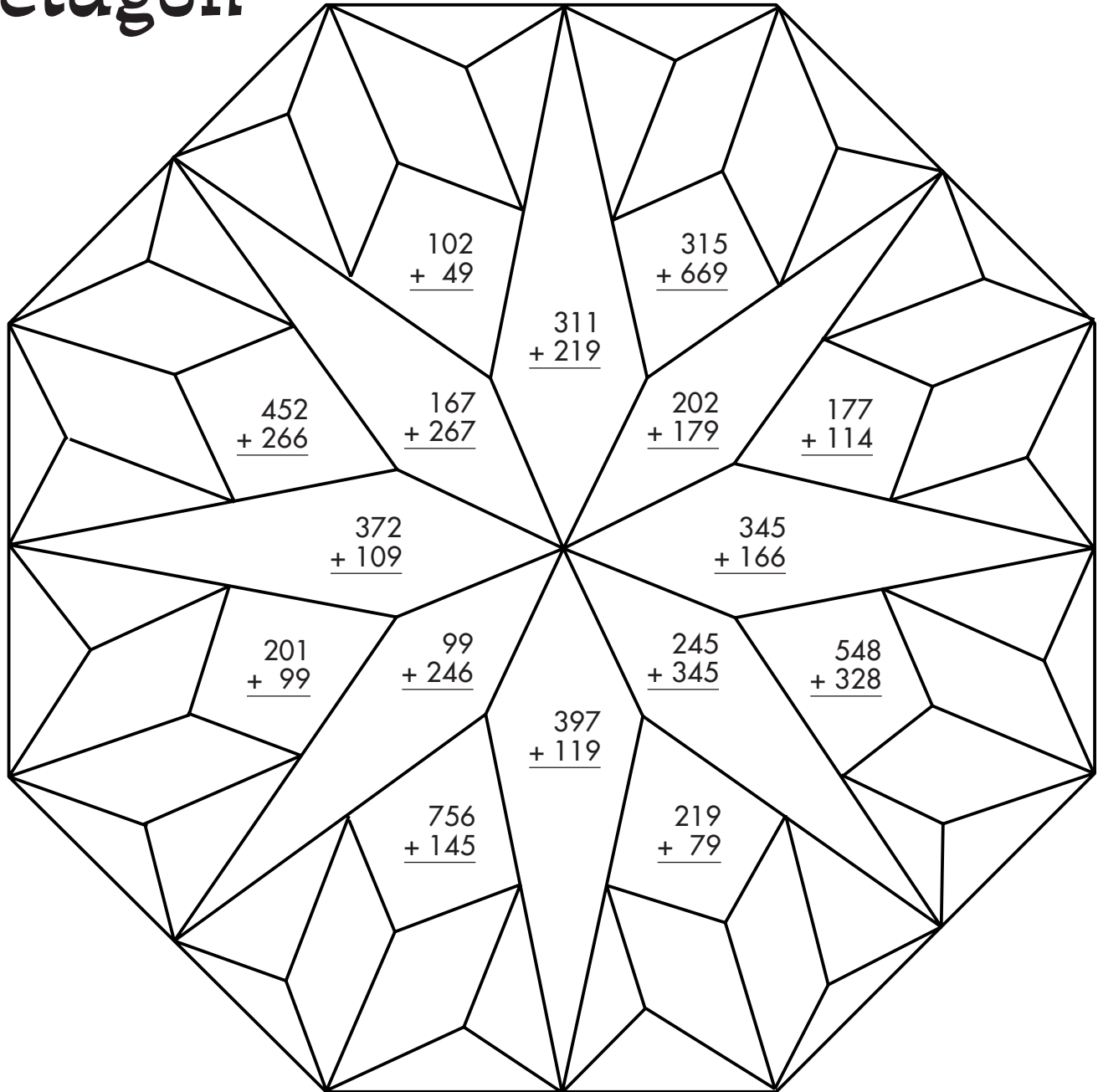
If the answer is between 31 and 99, color the shape gray.

Finish the design by coloring the other shapes with the colors of your choice.

*Taking It Further:* Name two numbers that when added together equal 27.



# Blooming Octagon



Solve the problems.

If the answer is between 1 and 300, color the shape yellow.

If the answer is between 301 and 600, color the shape blue.

If the answer is between 601 and 1,000, color the shape orange.

Finish the design by coloring the outer shapes with the colors of your choice.

*Taking It Further:* Fill in the next three numbers in this pattern.

150, 300, 450, 600, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.



# Super Star

68  
-26

34  
-11

91  
-20

47  
-15

33  
-21

19  
-12

67  
-13

88  
-54

69  
-59

88  
-12

28  
-24

17  
-6

35  
-11

97  
-13

57  
-55

81  
-21

39  
-15

60  
-10

Solve the problems.

If the answer is between 1 and 20, color the shape red.

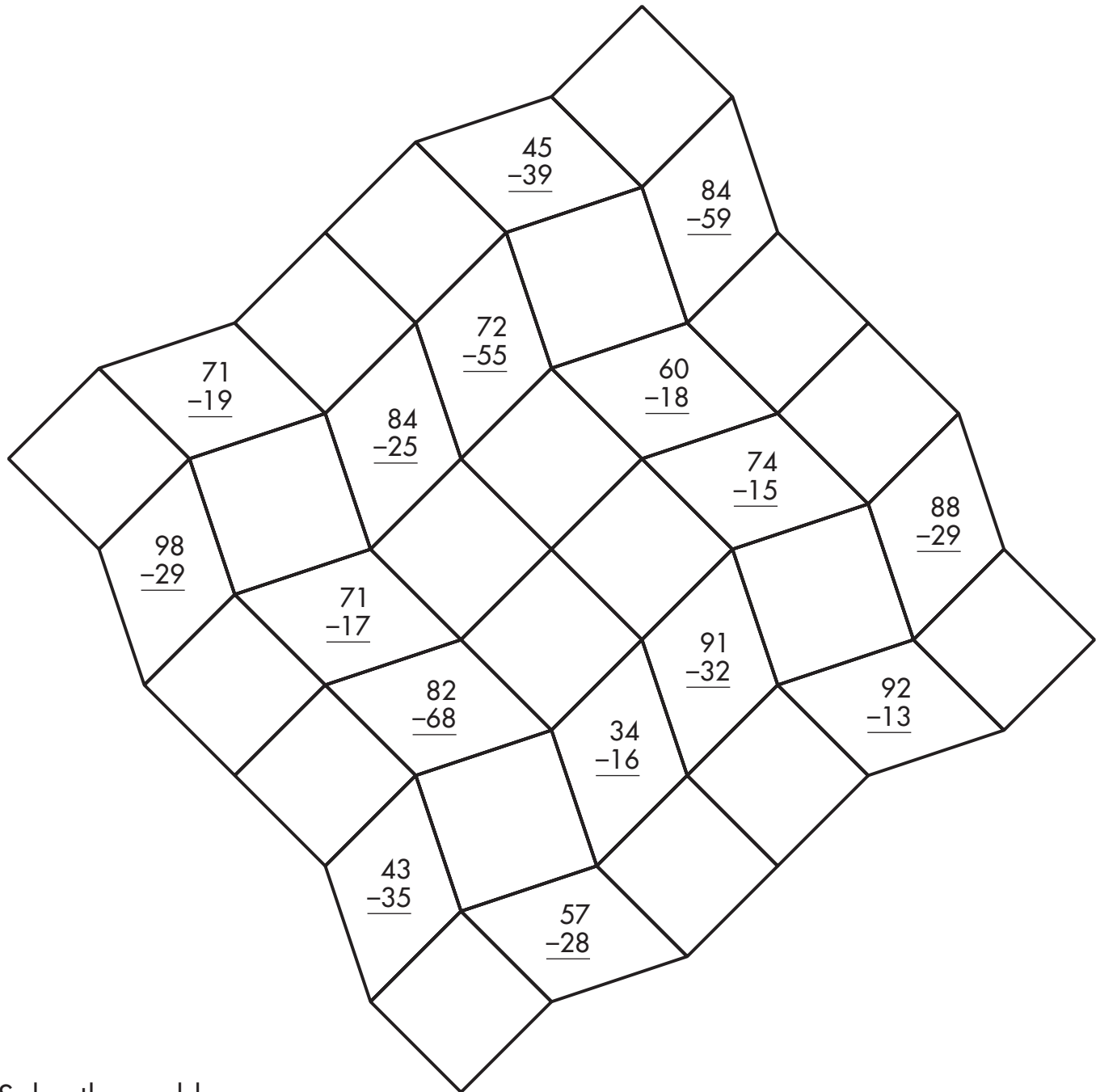
If the answer is between 21 and 40, color the shape white.

If the answer is between 41 and 90, color the shape blue.

*Taking It Further:* Write five subtraction problems that have answers between 10 and 20.



# Grandma's Quilt



Solve the problems.

If the answer is between 1 and 50, color the shape red.

If the answer is between 51 and 100, color the shape blue.

Finish the design by coloring the other shapes with the colors of your choice.

*Taking It Further:* Amelia bought 30 tickets for rides at the carnival. She used 15 tickets in the first hour. How many tickets did she have left?



# Morning Glory

779  
-197

822  
-187

242  
-133

745  
-219

912  
-119

727  
-533

704  
-315

643  
-250

743  
-146

829  
-147

725  
-137

698  
-119

935  
-149

904  
-183

862  
-170

795  
-106

874  
-486

724  
-473

401  
-298

684  
-136

721  
-155

542  
-368

884  
-275

987  
-396

Solve the problems.

If the answer is between 0 and 250, color the shape yellow.

If the answer is between 251 and 500, color the shape purple.

If the answer is between 501 and 1,000, color the shape pink.

Finish the design by coloring the other shapes with the colors of your choice.

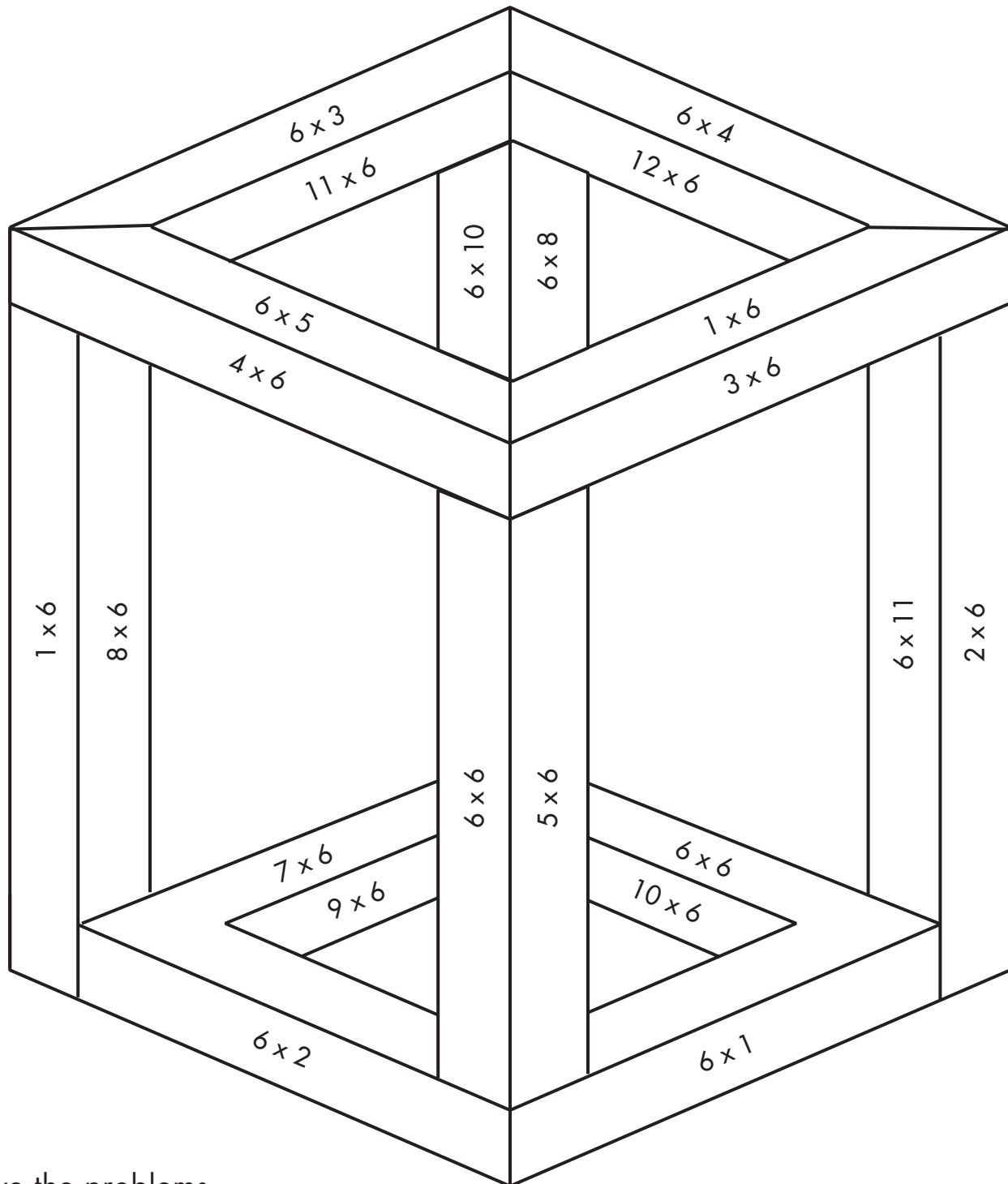
*Taking It Further:* Arrange the digits 7, 3, and 9 to make the largest number possible. Then rearrange them to make the smallest number possible.

Subtract the smaller number from the larger number.

Write your answer here: \_\_\_\_\_ .



# Building Blocks



Solve the problems.

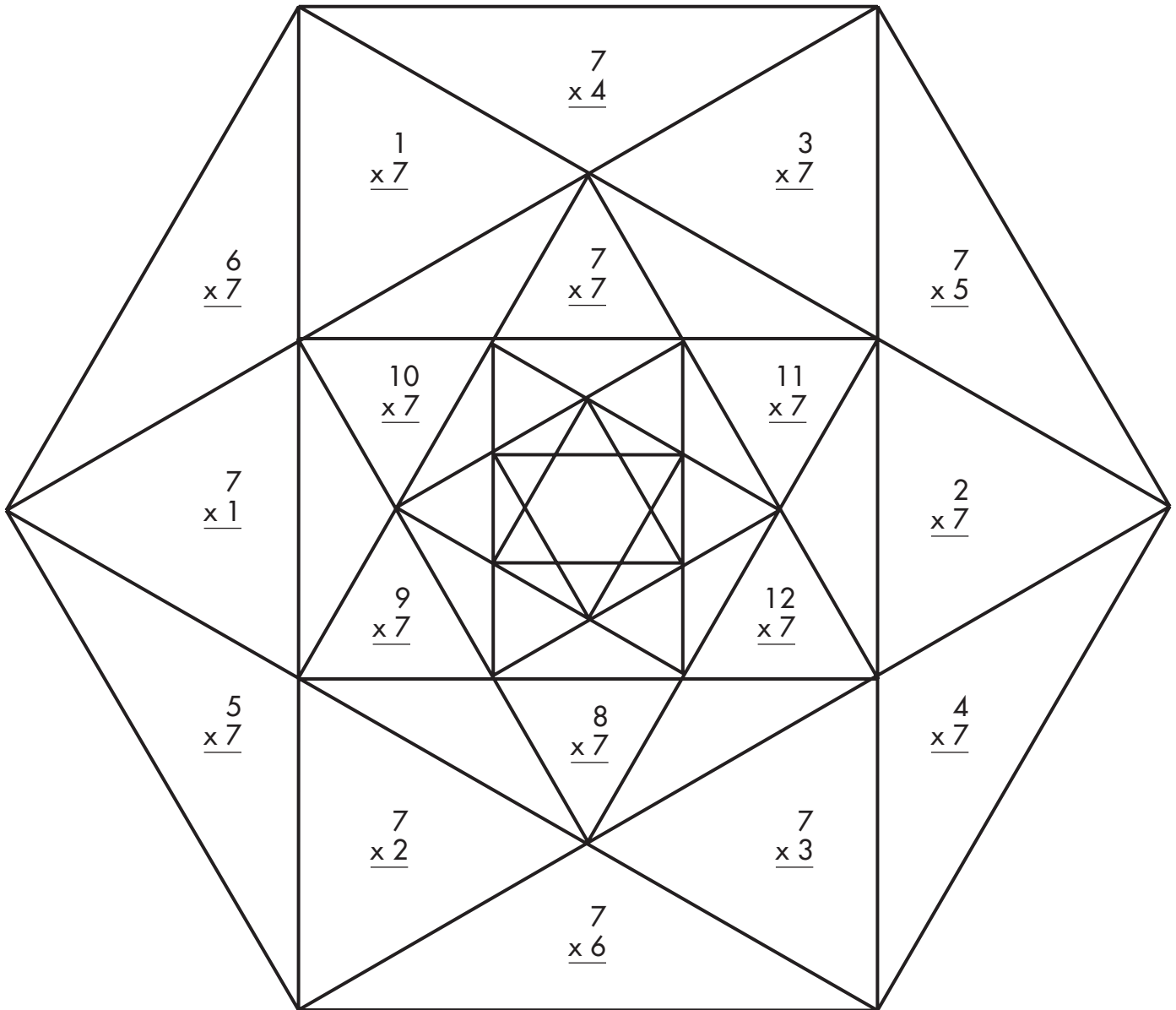
If the answer is between 1 and 42, color the shape black.

If the answer is between 43 and 72, color the shape green.

*Taking It Further:* Mike the mouse has 6 members in his family. How many feet are in Mike's family?



# Stargazer



Solve the problems.

If the answer is between 1 and 21, color the shape orange.

If the answer is between 22 and 45, color the shape green.

If the answer is between 46 and 85, color the shape red.

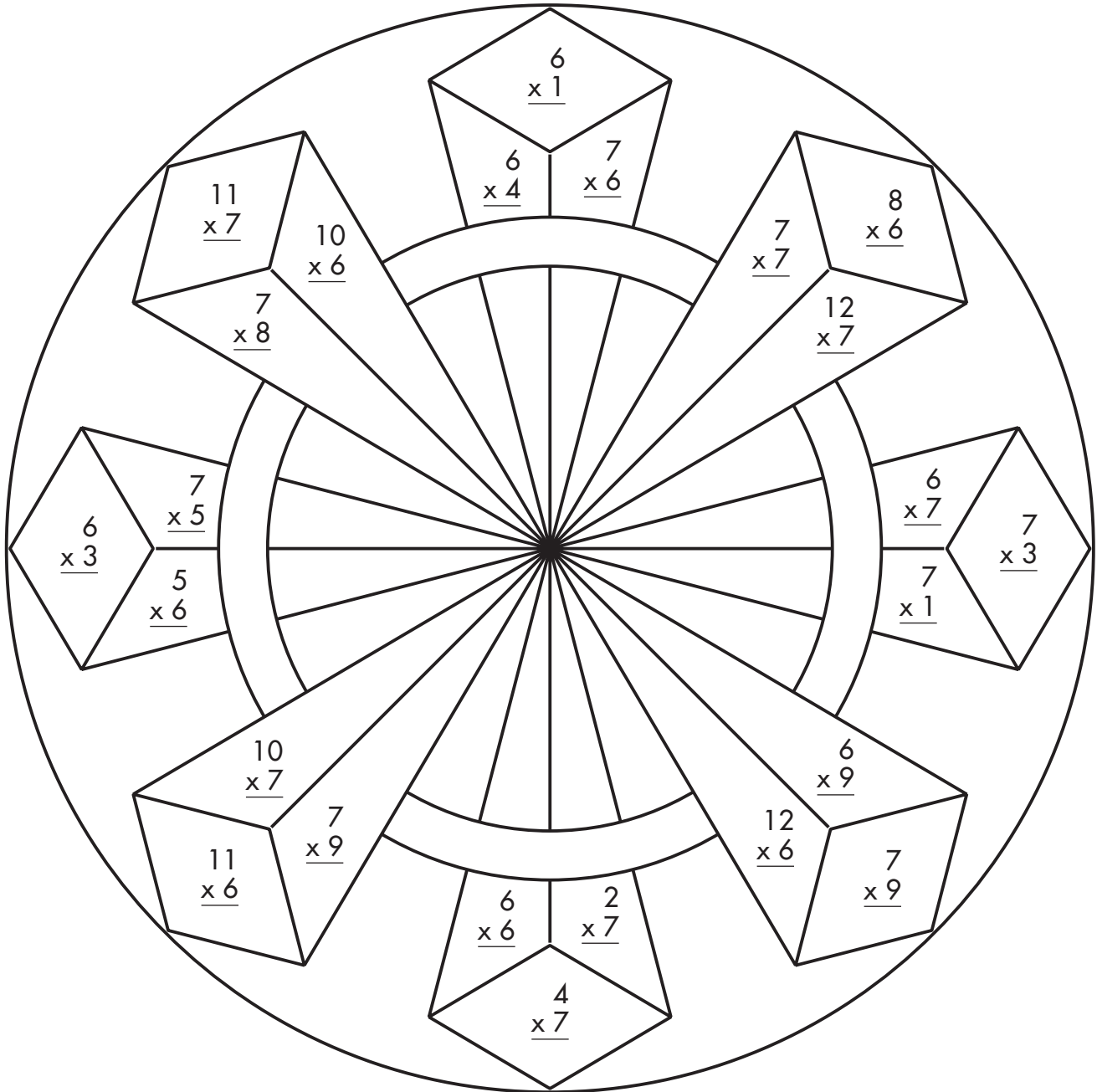
Finish the design by coloring the other shapes with the colors of your choice.

*Taking It Further:* Fill in the missing numbers in this pattern.

7, 14, 21, \_\_\_\_\_, \_\_\_\_\_, 42, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, 70, \_\_\_\_\_, \_\_\_\_\_.



# Space Traveler



Solve the problems.

If the answer is between 0 and 45, color the shape black.

If the answer is between 46 and 85, color the shape red.

Finish the design by coloring the other shapes with the colors of your choice.

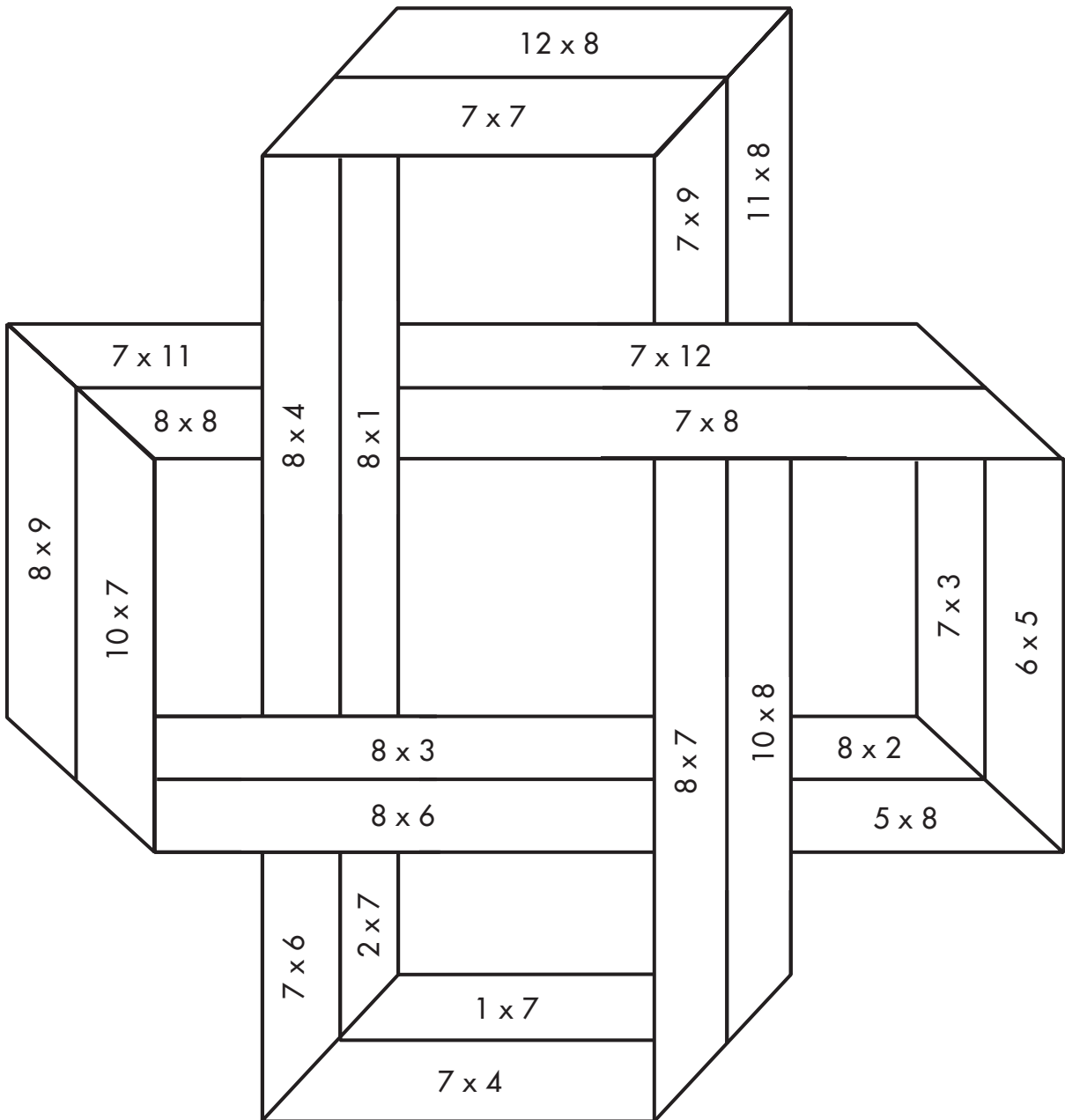
*Taking It Further:* Look at the four numbers below. Which two numbers, when multiplied together, are greater than 200 but less than 400?

4, 8, 23, 49





# Locking Boxes



Solve the problems.

If the answer is between 0 and 24, color the shape red.

If the answer is between 25 and 48, color the shape pink.

If the answer is between 49 and 70, color the shape green.

If the answer is between 71 and 97, color the shape yellow.

*Taking It Further:* There are 8 people in the Chin family. If each person eats 3 cookies a day, how many days will it take the family to eat 2 dozen cookies? (Hint: A dozen equals 12.)



# Star-Struck Multiplication

Solve the problems. Then color this design with your favorite colors. Here's how:

1. Choose three colors that you like the best.
2. Write the name of one of the colors on each line below.
3. Color the design.

If the answer is between 1 and 20, color the shape \_\_\_\_\_.

If the answer is between 21 and 75, color the shape \_\_\_\_\_.

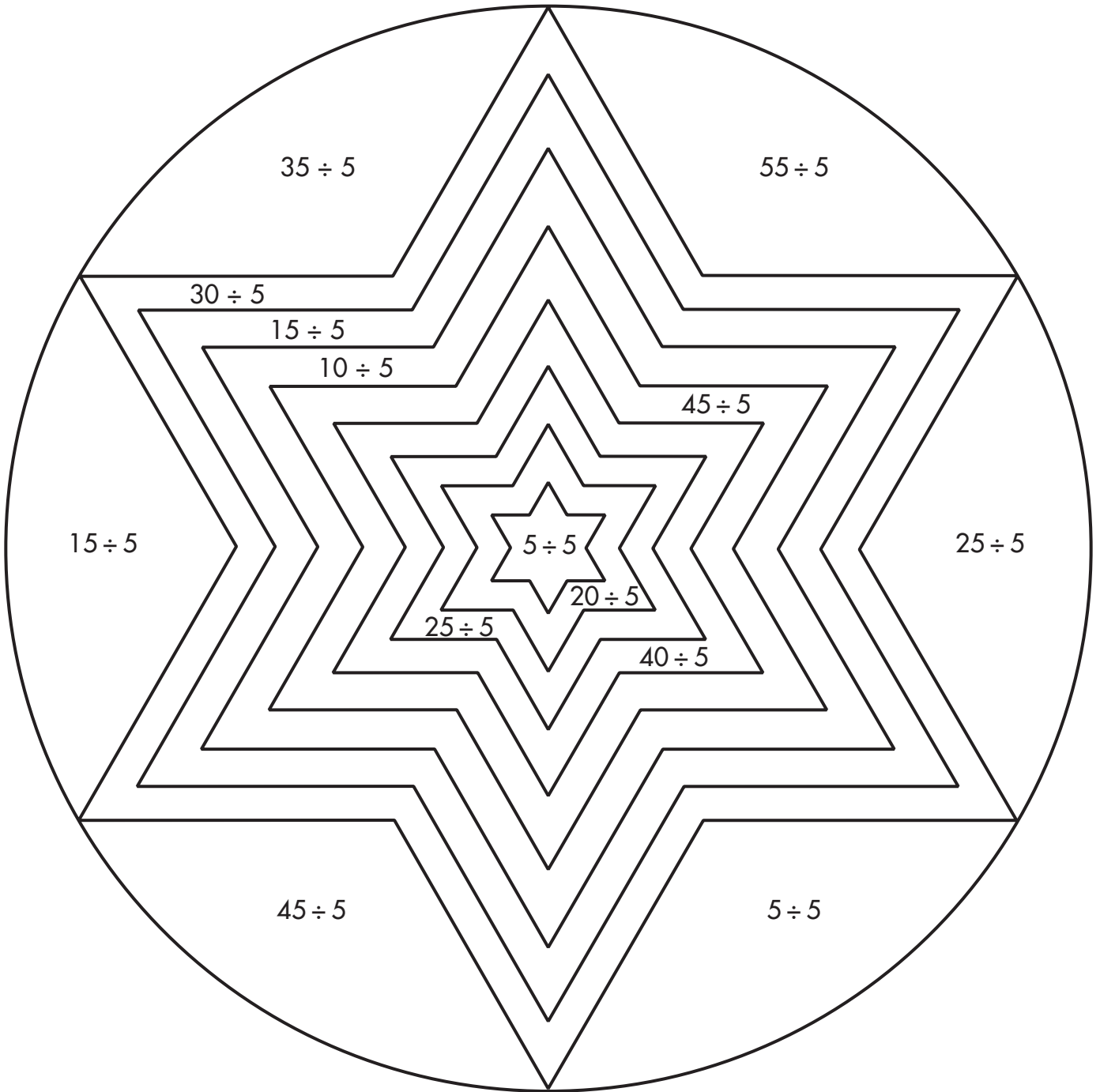
If the answer is between 76 and 120, color the shape \_\_\_\_\_.

*Taking It Further:* Fill in the next three numbers in this pattern.

81, 72, 63, 54, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.



# Exploding Star



Solve the problems.

If the answer is even, color the shape blue.

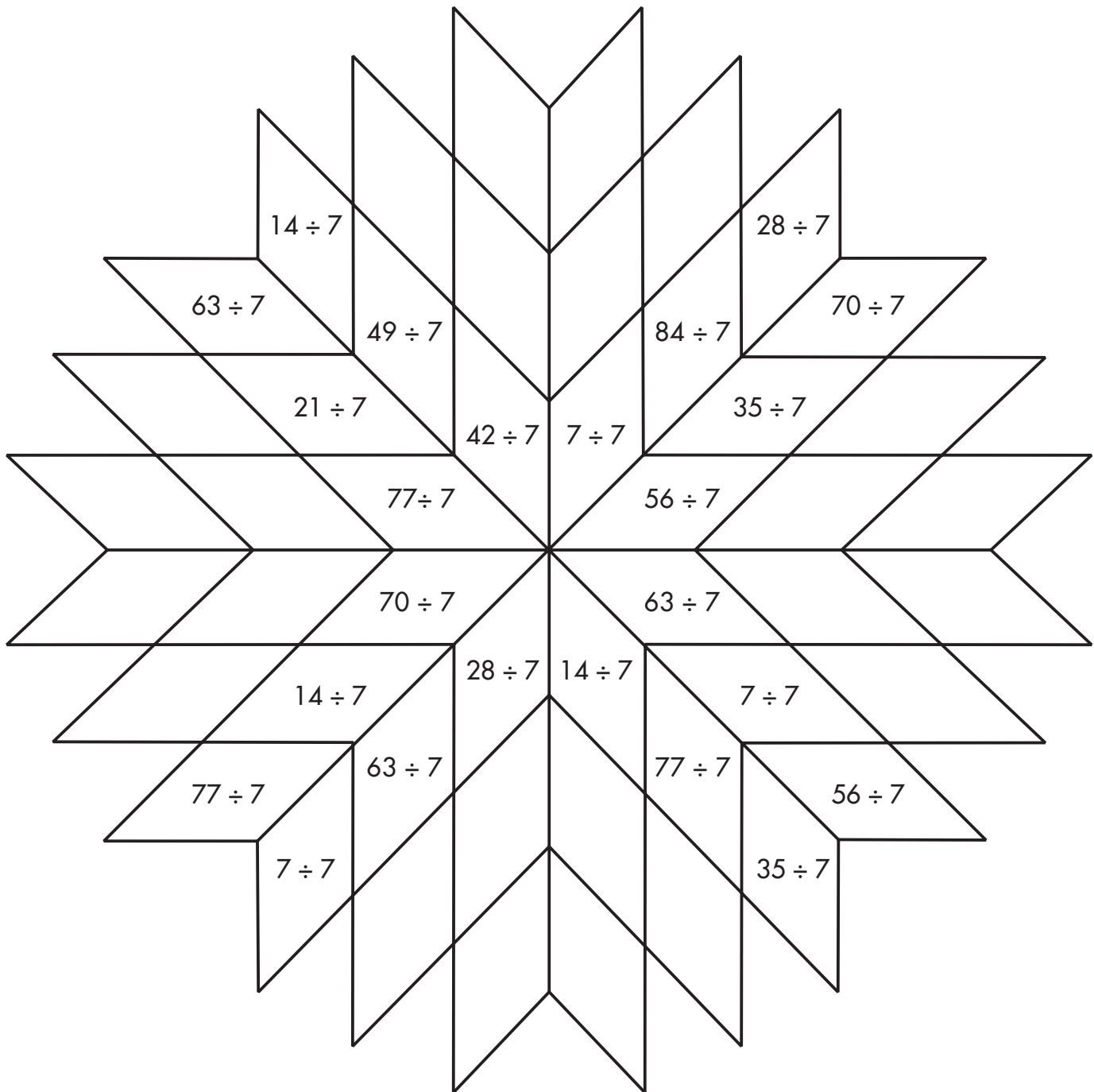
If the answer is odd, color the shape orange.

*Taking It Further:* Circle the numbers that can be divided by 5 with no remainder.

5   8   10   15   19   20   25   30   32   33   35   40   42



# Patchwork Diamonds



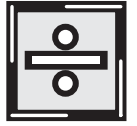
Solve the problems.

If the answer is between 1 and 6, color the shape green.

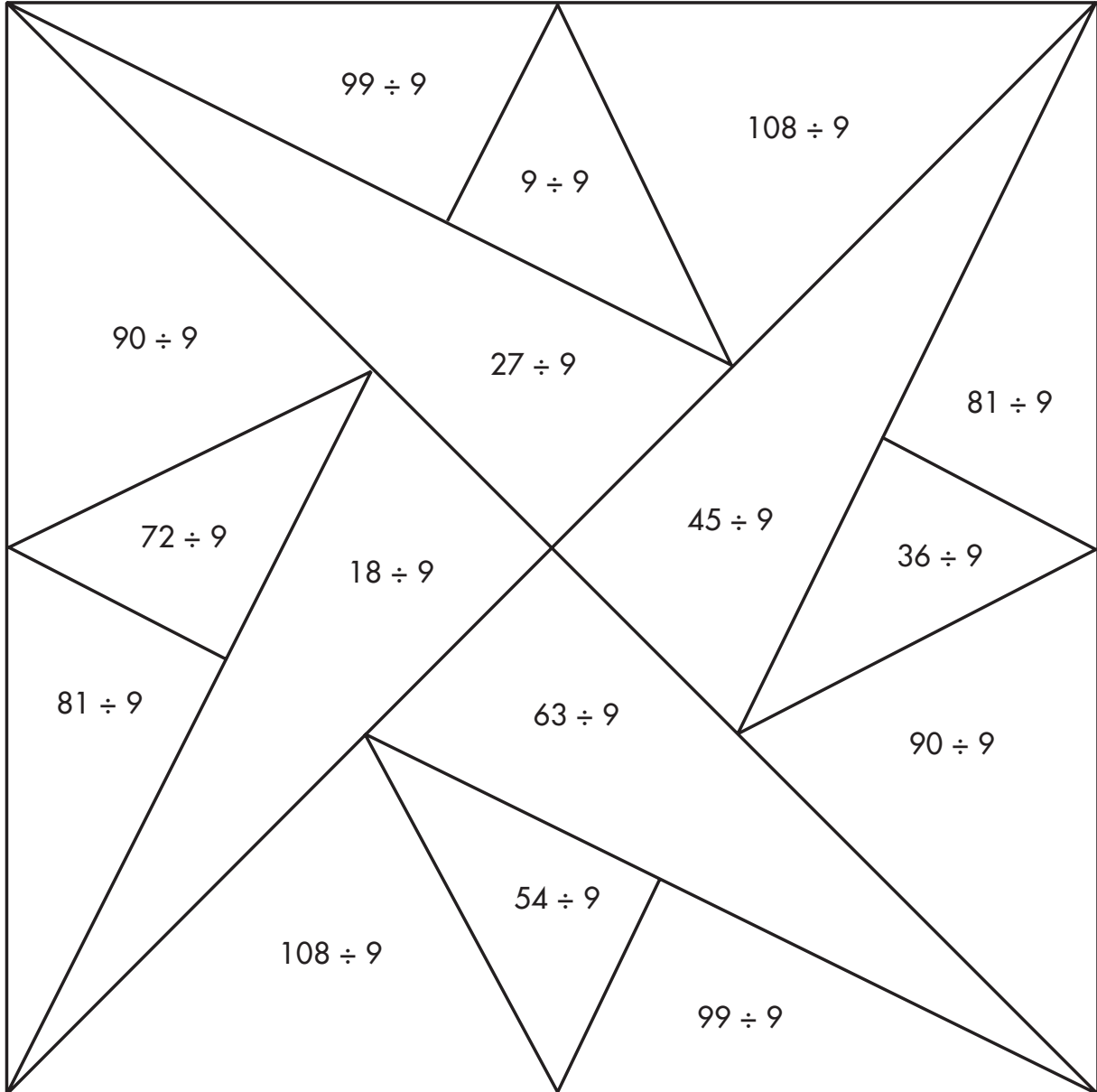
If the answer is between 7 and 12, color the shape red.

Finish the design by coloring the other shapes with the colors of your choice.

*Taking It Further:* Jamie is making a quilt with 70 diamond-shaped pieces. If 7 pieces make one square, how many squares will her quilt have?



# Star Puzzle



Solve the problems.

If the answer is 1 or 2, color the shape pink.

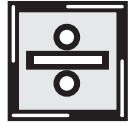
If the answer is 3 or 4, color the shape yellow.

If the answer is 5 or 6, color the shape green.

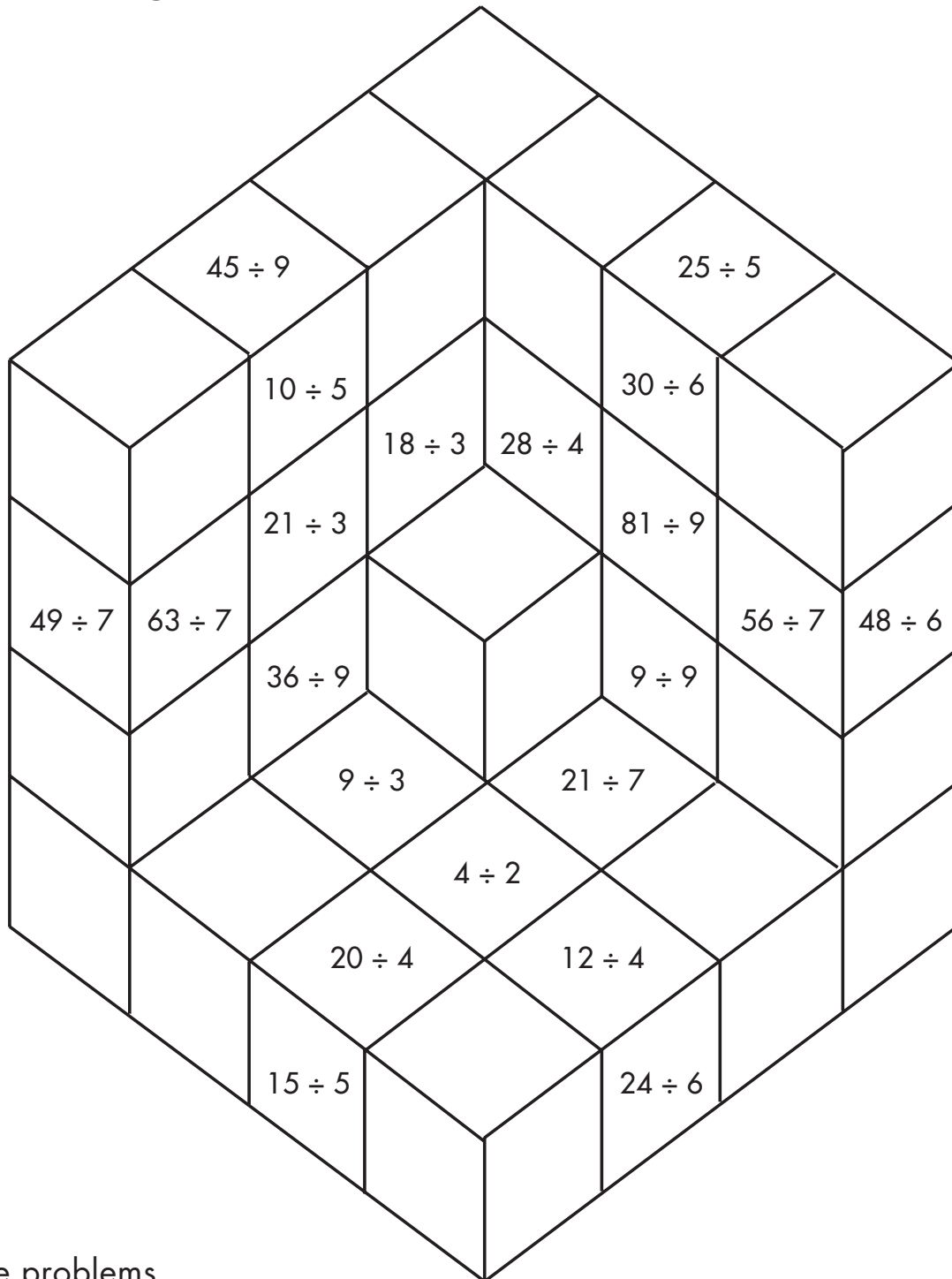
If the answer is 7 or 8, color the shape orange.

If the answer is 9, 10, 11, or 12, color the shape blue.

*Taking It Further:* A clerk at the grocery store took 15 bottles of soda from one box and 3 bottles of soda from another box. She put out 9 bottles of soda in each row on the shelf. How many rows were there in all?



# Missing Blocks



Solve the problems.

If the answer is between 1 and 5, color the shape orange.

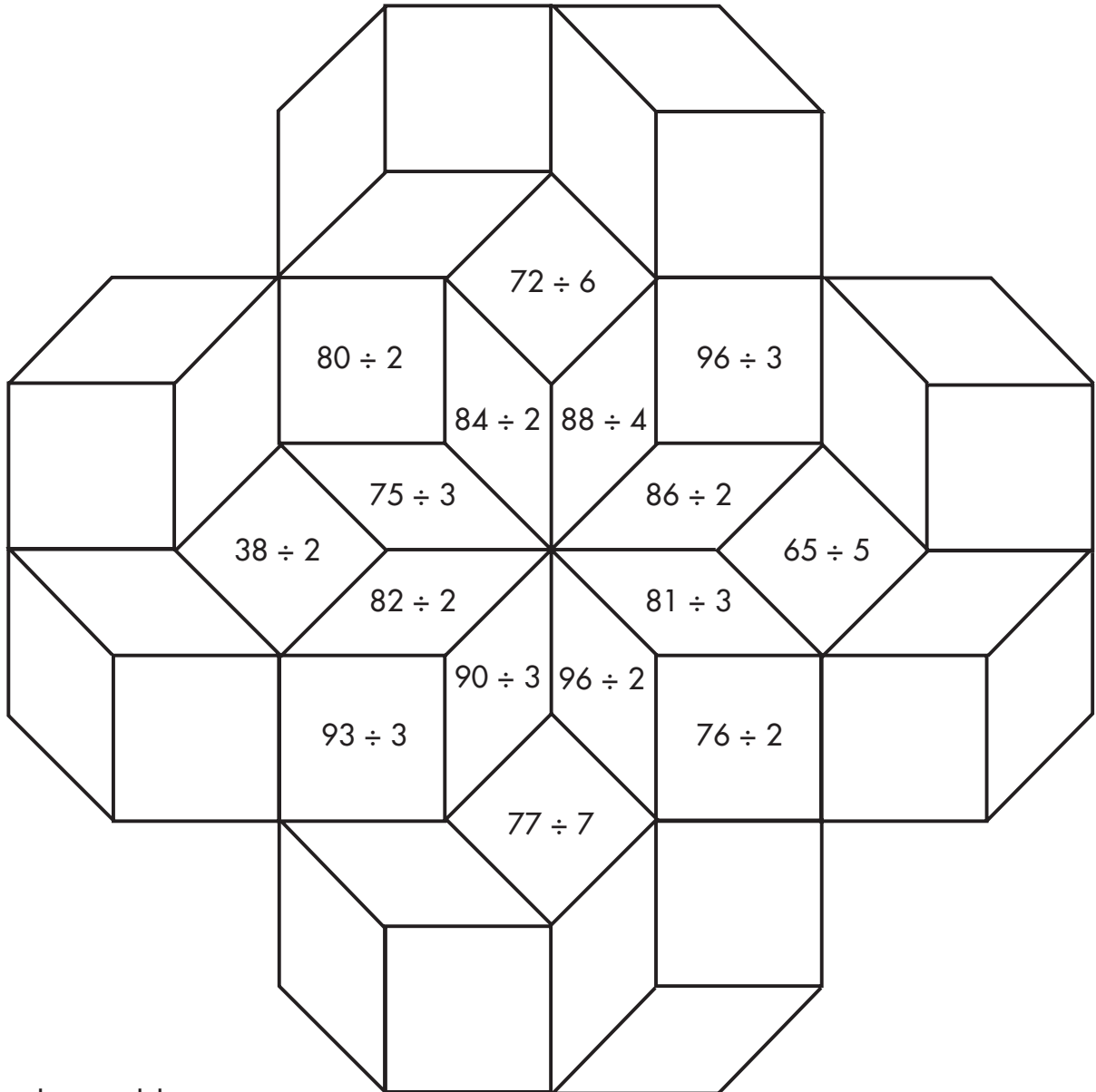
If the answer is between 6 and 9, color the shape yellow.

Color the other shapes green.

*Taking It Further:* Write five different division problems that all have 7 as their answer.



# Playing With Blocks



Solve the problems.

If the answer is between 1 and 20, color the shape green.

If the answer is between 21 and 30, color the shape red.

If the answer is between 31 and 40, color the shape yellow.

If the answer is between 41 and 50, color the shape pink.

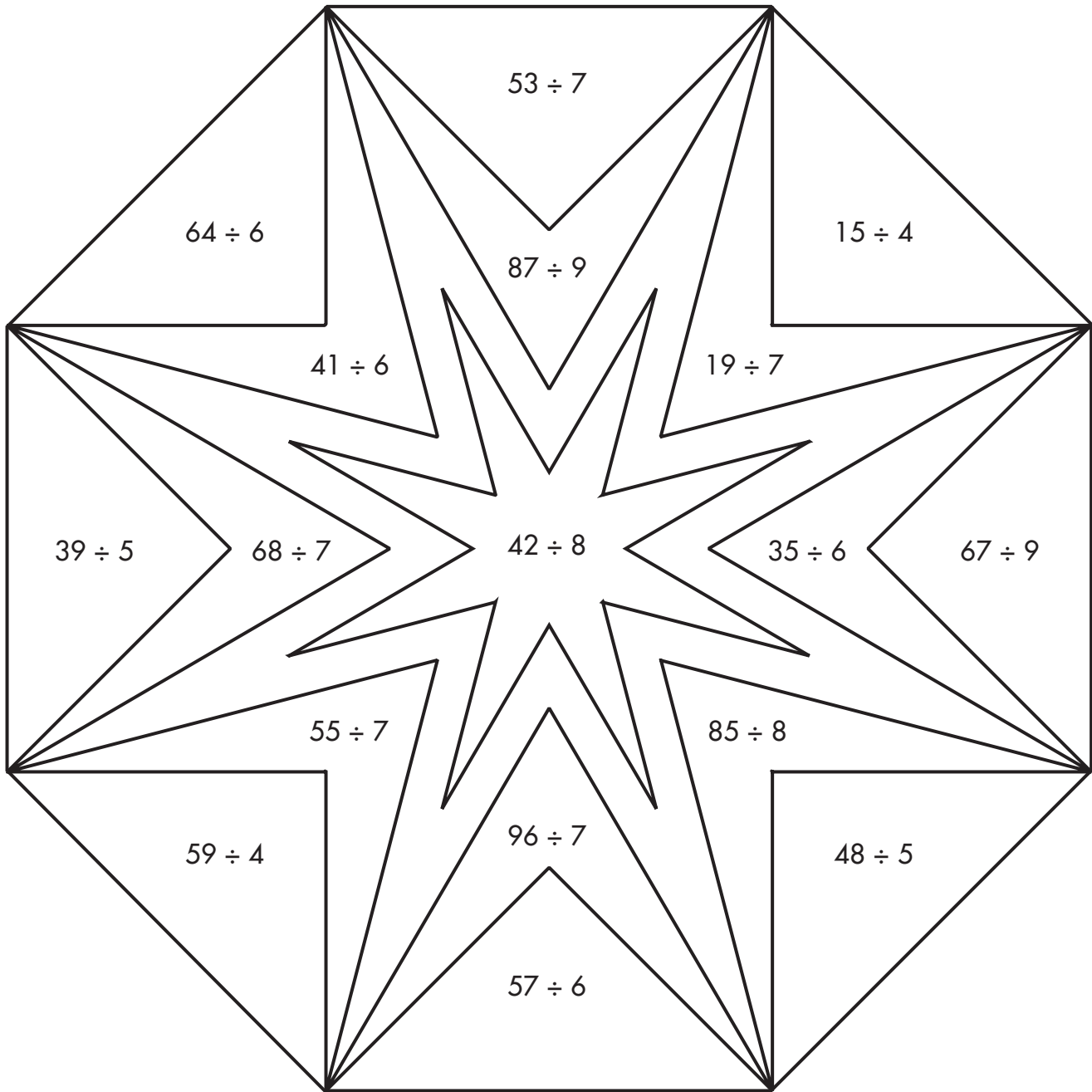
Finish the design by coloring the other shapes with the colors of your choice.

*Taking It Further:* Tim counted 36 bird wings. If each bird had 2 wings, how many birds were there in all?



# Fireworks

Two Digits  $\div$  One Digit With Remainders



Solve the problems.

If the remainder is 1 or 2, color the shape yellow.

If the remainder is 3 or 4, color the shape red.

If the remainder is 5 or 6, color the shape orange.

Finish the design by coloring the other shapes with the colors of your choice.

*Taking It Further:* Rebecca had 89 pieces of candy to give to 4 friends. How many pieces did each person get? Were there any pieces left over? If so, how many?



Name \_\_\_\_\_

# ADDITION



Two Digits Without Regrouping

# Ice Cream Cone

$$\begin{array}{r} 53 \\ +16 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ +13 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ +31 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ +24 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ +24 \\ \hline \end{array}$$

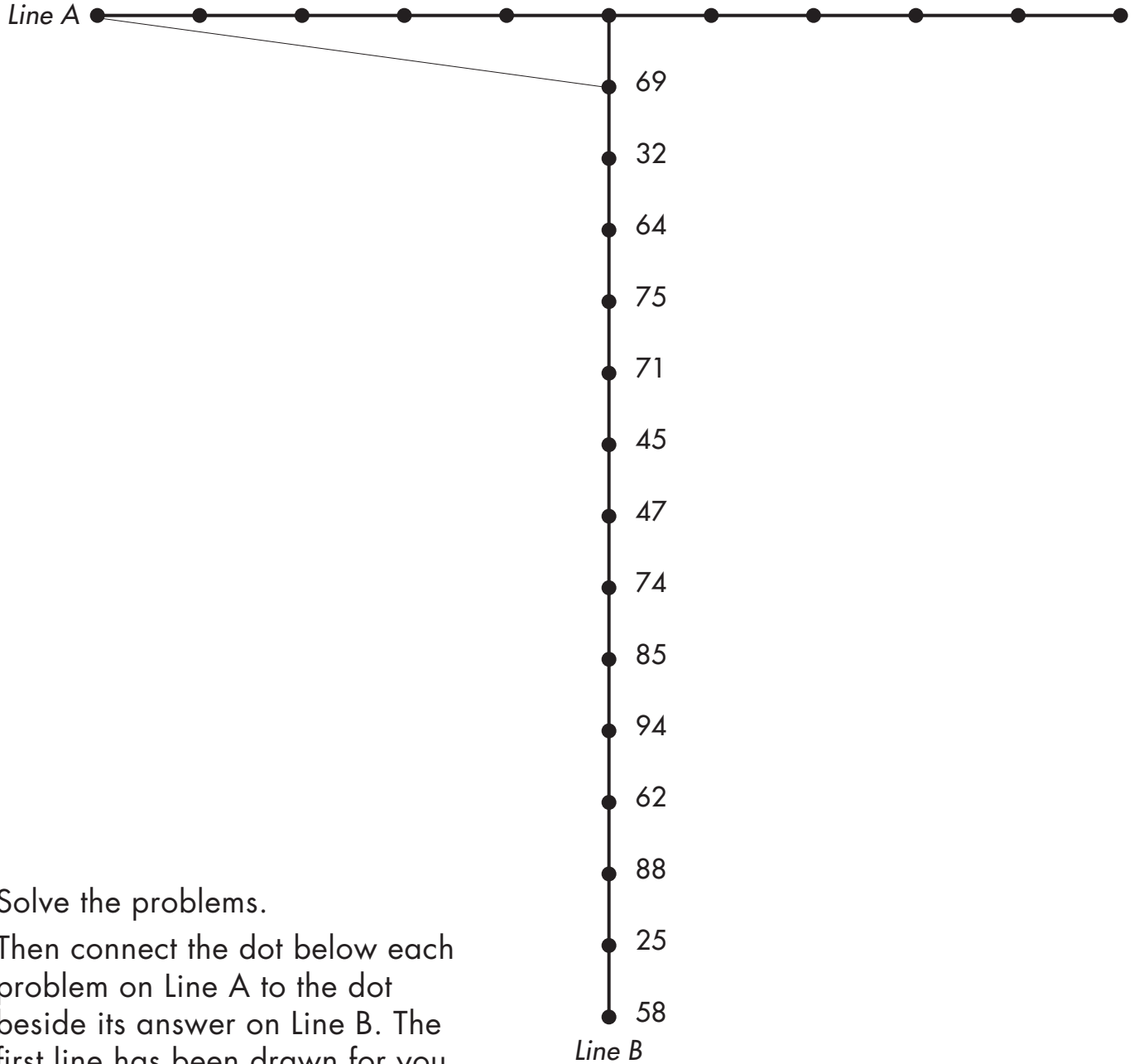
$$\begin{array}{r} 46 \\ +12 \\ \hline \end{array}$$

$$\begin{array}{r} 73 \\ +15 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ +42 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \\ +23 \\ \hline \end{array}$$

$$\begin{array}{r} 53 \\ +16 \\ \hline \end{array}$$



Solve the problems.

Then connect the dot below each problem on Line A to the dot beside its answer on Line B. The first line has been drawn for you. Some dots on Line B will not be used.

*Taking It Further:* Circle the problems that have a sum of 77.

a.  $42 + 35 = \underline{\quad}$

b.  $69 + 8 = \underline{\quad}$

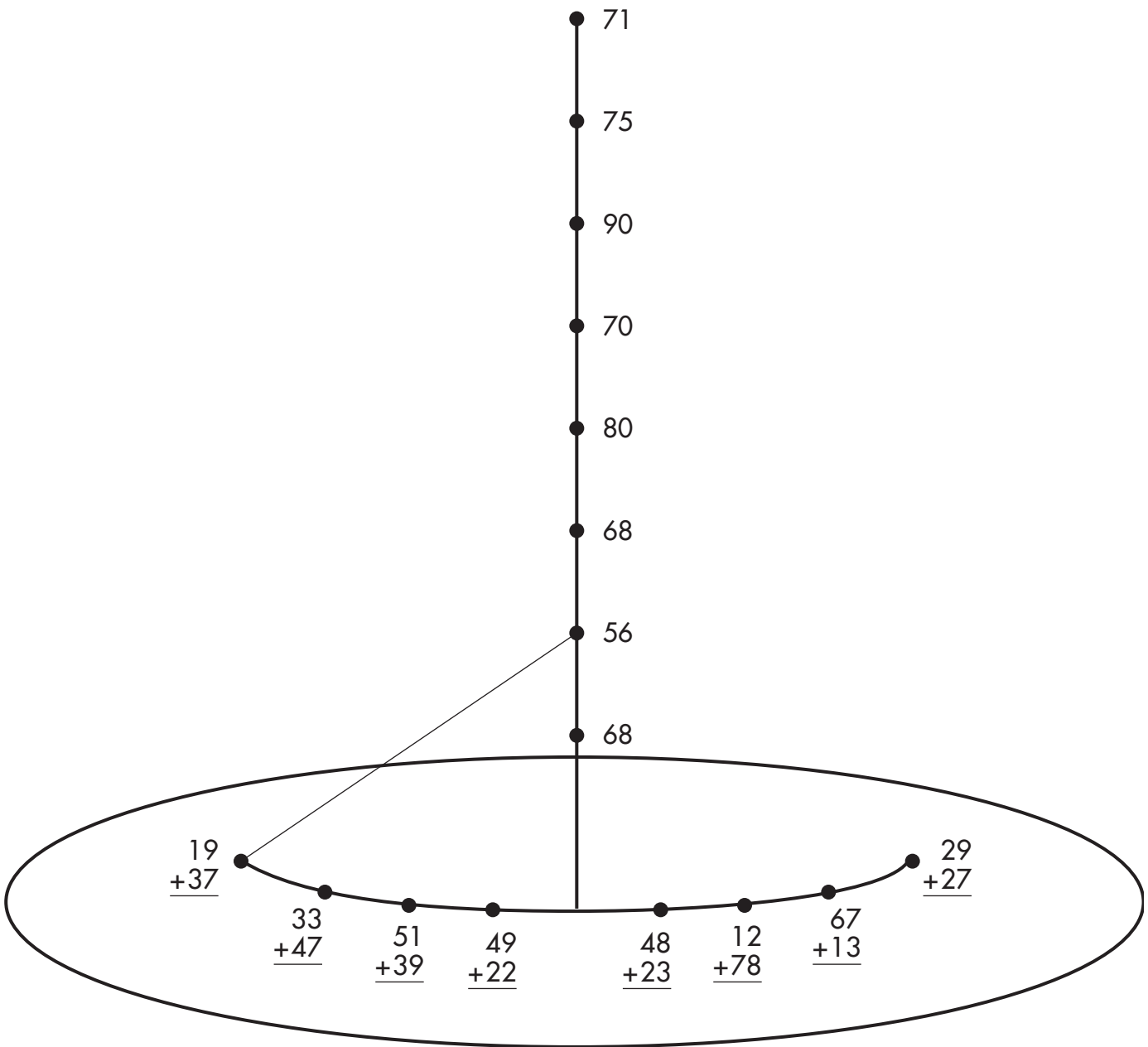
c.  $14 + 61 = \underline{\quad}$

d.  $17 + 60 = \underline{\quad}$

e.  $13 + 64 = \underline{\quad}$



# Bewitching Math



Solve the problems.

Then connect the dot above each problem to the dot beside its answer. The first line has been drawn for you. Some dots will not be used.

*Taking It Further:* Fill in the missing numbers in the problems below.

a. 
$$\begin{array}{r} 2\boxed{\phantom{0}} \\ +27 \\ \hline 50 \end{array}$$

b. 
$$\begin{array}{r} 53 \\ +2\boxed{\phantom{0}} \\ \hline 82 \end{array}$$

c. 
$$\begin{array}{r} 56 \\ +1\boxed{\phantom{0}} \\ \hline 73 \end{array}$$

d. 
$$\begin{array}{r} 28 \\ +57 \\ \hline \boxed{\phantom{0}}\boxed{\phantom{0}} \end{array}$$

e. 
$$\begin{array}{r} 43 \\ +\boxed{\phantom{0}}7 \\ \hline 90 \end{array}$$

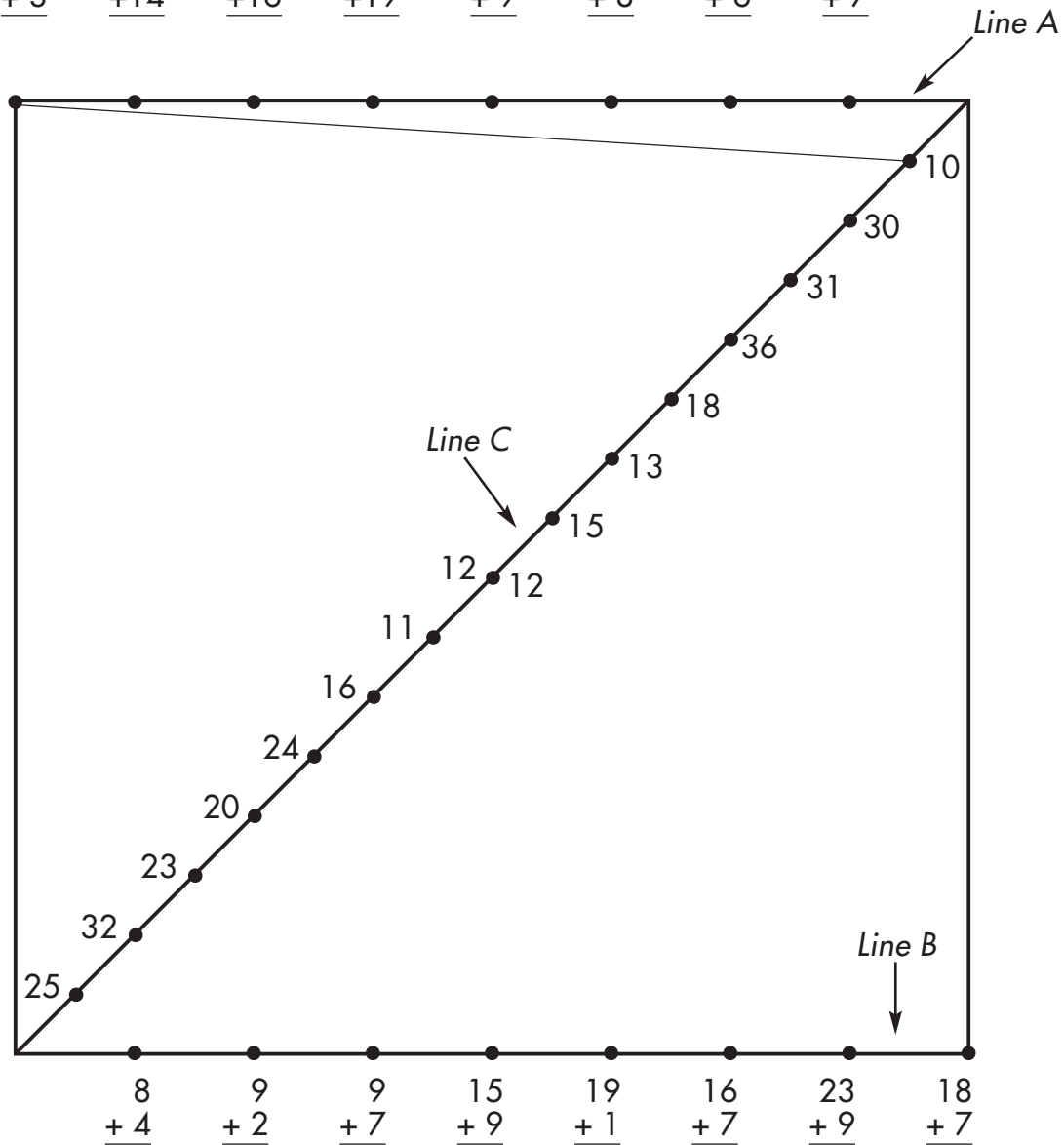
f. 
$$\begin{array}{r} 45 \\ +\boxed{\phantom{0}}\boxed{\phantom{0}} \\ \hline 71 \end{array}$$



# Wave Action

One and Two Digits With Regrouping

$\begin{array}{r} 7 \\ +3 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ +14 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ +16 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ +19 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ +8 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ +6 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ +7 \\ \hline \end{array}$
--	--	--	--	--	--	--	--



Solve the problems.

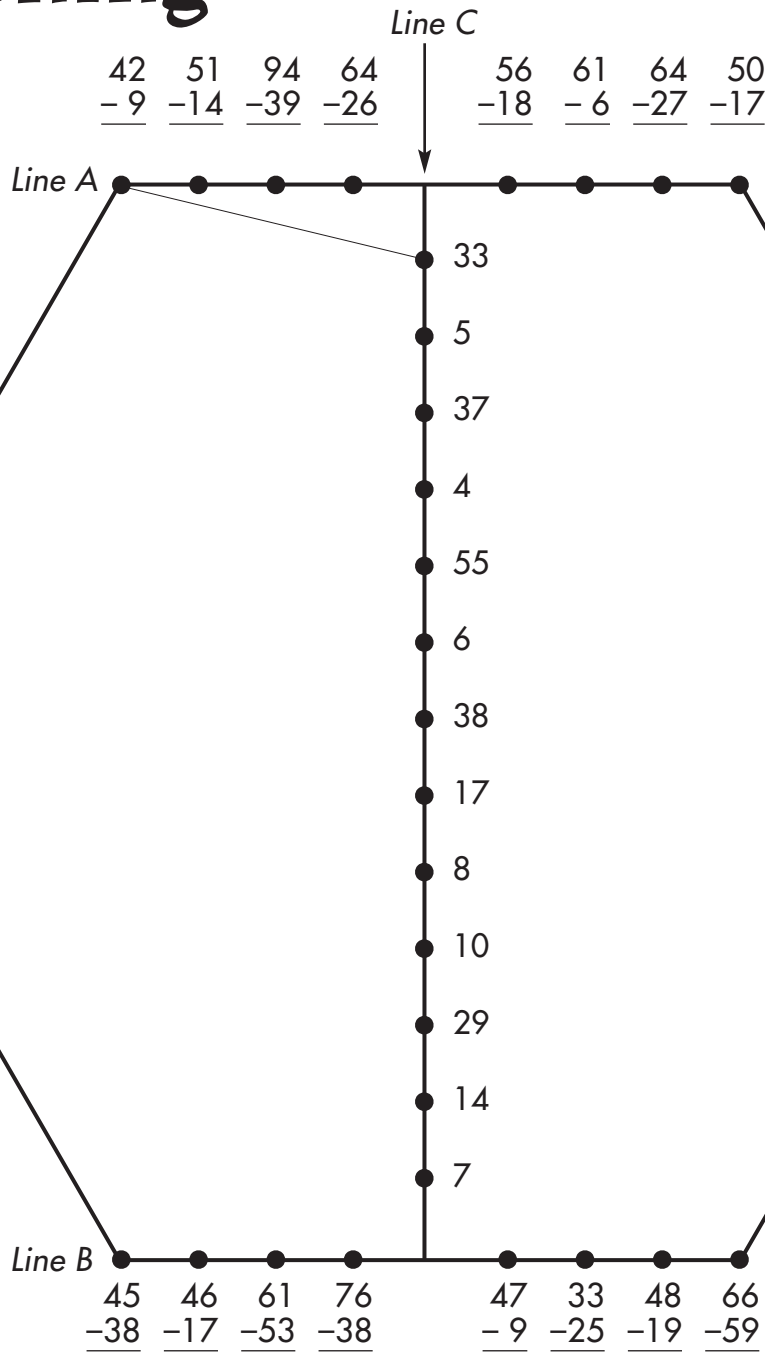
Then connect the dot below each problem on Line A to the dot beside its answer on Line C. The first line has been drawn for you.

Connect the dot above each problem on Line B to the dot beside its answer on Line C.

*Taking It Further:* Write three different addition problems that all have 11 as their answer.



# Stretching Taffy



Solve the problems.

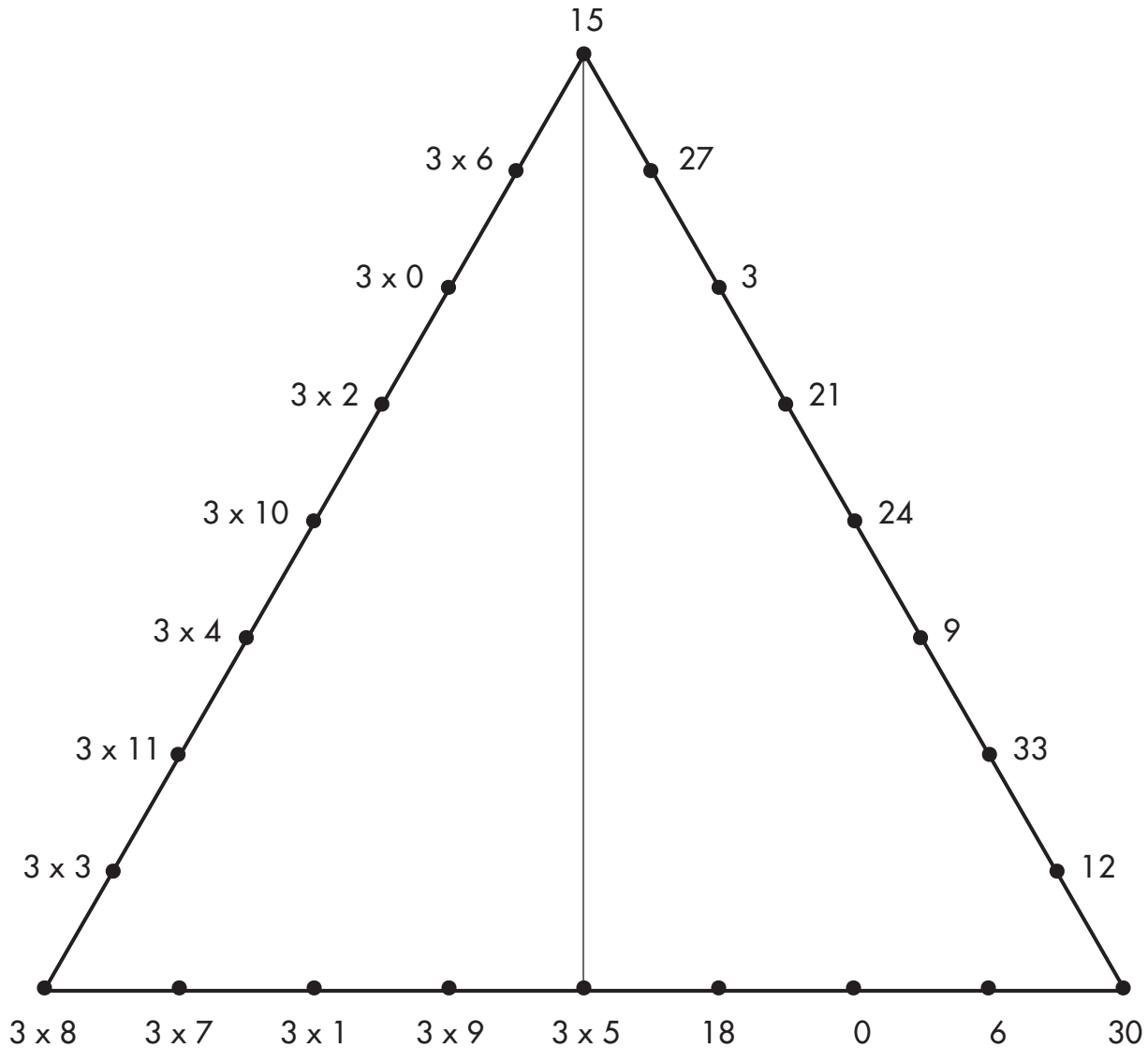
Then connect the dot below each problem on Line A to the dot beside its answer on Line C. The first line has been drawn for you.

Connect the dot above each problem on Line B to the dot beside its answer on Line C. Some dots on Line C will not be used.

*Taking It Further:* Amanda picked 9 flowers from her garden. She added them to some flowers in a vase. Now she has 16 flowers in all. How many flowers were in the vase to begin with?



# Spectacular Triangle



Solve the problems.

Then connect the dot beside each problem to the dot beside its answer.  
One line has been drawn for you.

*Taking It Further:* Find the number that will make the equation true.

a. \_\_\_\_\_ x 7 = 21

c. 9 x \_\_\_\_\_ = 27

e. 2 x 3 = \_\_\_\_\_

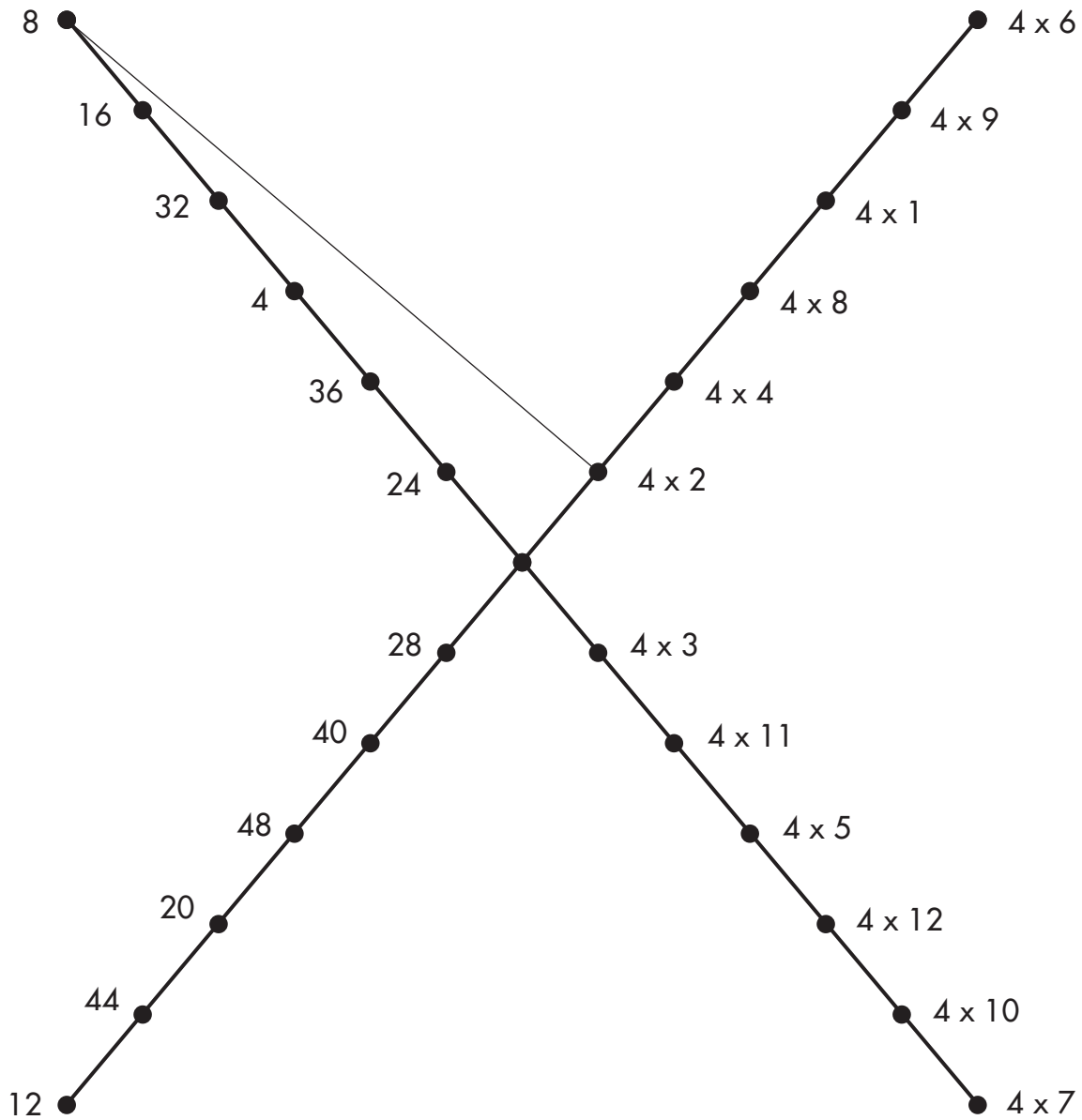
b. \_\_\_\_\_ x 5 = 15

d. 3 x \_\_\_\_\_ = 24

f. 6 x 3 = \_\_\_\_\_



# Hourglass



Solve the problems.

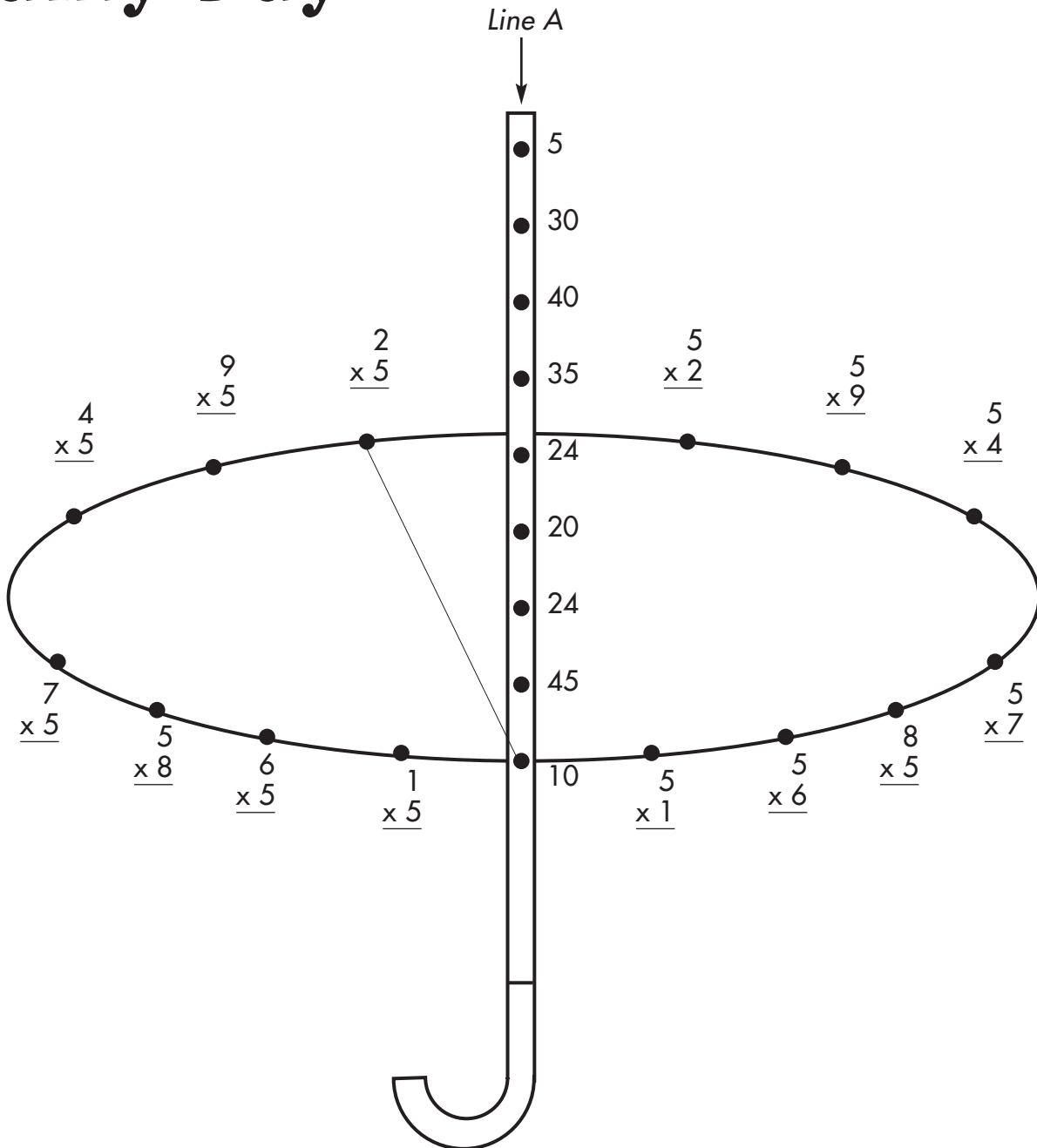
Then connect the dot beside each problem to the dot beside its answer.  
One line has been drawn for you.

*Taking It Further:* Fill in the missing numbers in this pattern.

4, 8, \_\_\_\_\_, \_\_\_\_\_, 20, \_\_\_\_\_, 28, \_\_\_\_\_, 36, \_\_\_\_\_, 44, \_\_\_\_\_.



# Rainy Day



Solve the problems.

Then connect the dot beside each problem to the dot beside its answer on Line A. One line has been drawn for you. Some dots on Line A will not be used.

*Taking It Further:* Fill in the missing numbers.

a. 
$$\begin{array}{r} \square \square \\ \times 5 \\ \hline 55 \end{array}$$

b. 
$$\begin{array}{r} \square \square \\ \times 5 \\ \hline 50 \end{array}$$

c. 
$$\begin{array}{r} 5 \\ \times \square \\ \hline 0 \end{array}$$

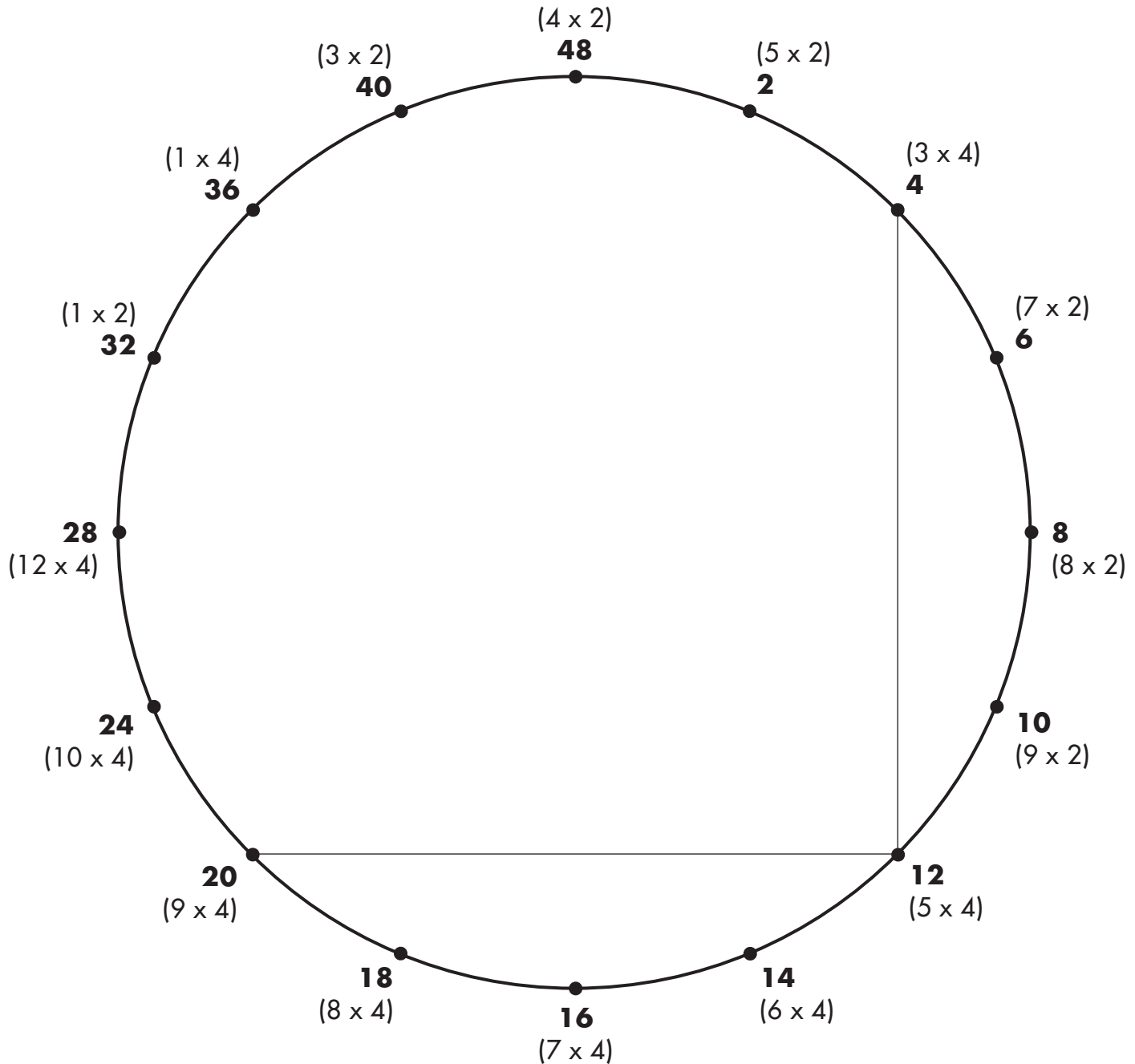
d. 
$$\begin{array}{r} 5 \\ \times \square \\ \hline 15 \end{array}$$

e. 
$$\begin{array}{r} \square \\ \times 5 \\ \hline 20 \end{array}$$

f. 
$$\begin{array}{r} \square \square \\ \times 5 \\ \hline 60 \end{array}$$



# Spider's Web



Solve the problems.

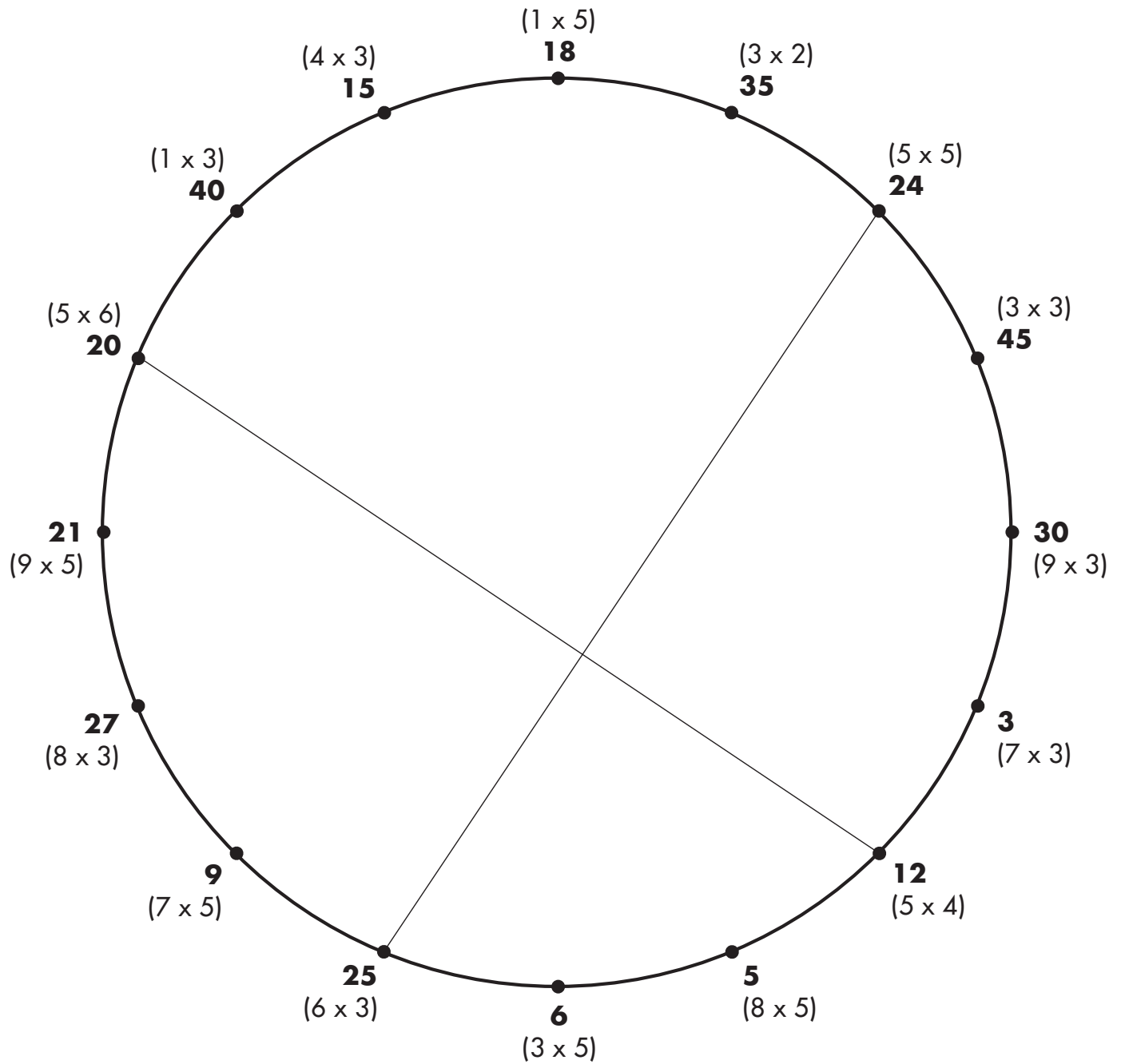
Then connect the dot beside each problem to the dot beside its answer.  
Two lines have been drawn for you.

*Taking It Further:* Nine students are making kites for science class. If they each need 3 yards of plastic, how much plastic will be needed all together?





# Sunburst



Solve the problems.

Then connect the dot beside each problem to the dot beside its answer.  
Two lines have been drawn for you.

*Taking It Further:* Fill in the missing numbers in these two patterns.

a. 50, 45, 40, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

b. 30, 27, 24, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.



# Lacy Heart

9 99 27 18 72 88 80 40 42 16 20 24 28 48 32 56 62 8 12 64 72 61 63 43 36 45 81 73 54 57 90 83

8 x 9    8 x 8

7 x 9    1 x 8

4 x 9    7 x 8

5 x 9    4 x 8

9 x 9    6 x 8

6 x 9    3 x 8

10 x 9    2 x 8

1 x 9    5 x 8

11 x 9    10 x 8

3 x 9    11 x 8

2 x 9    9 x 8

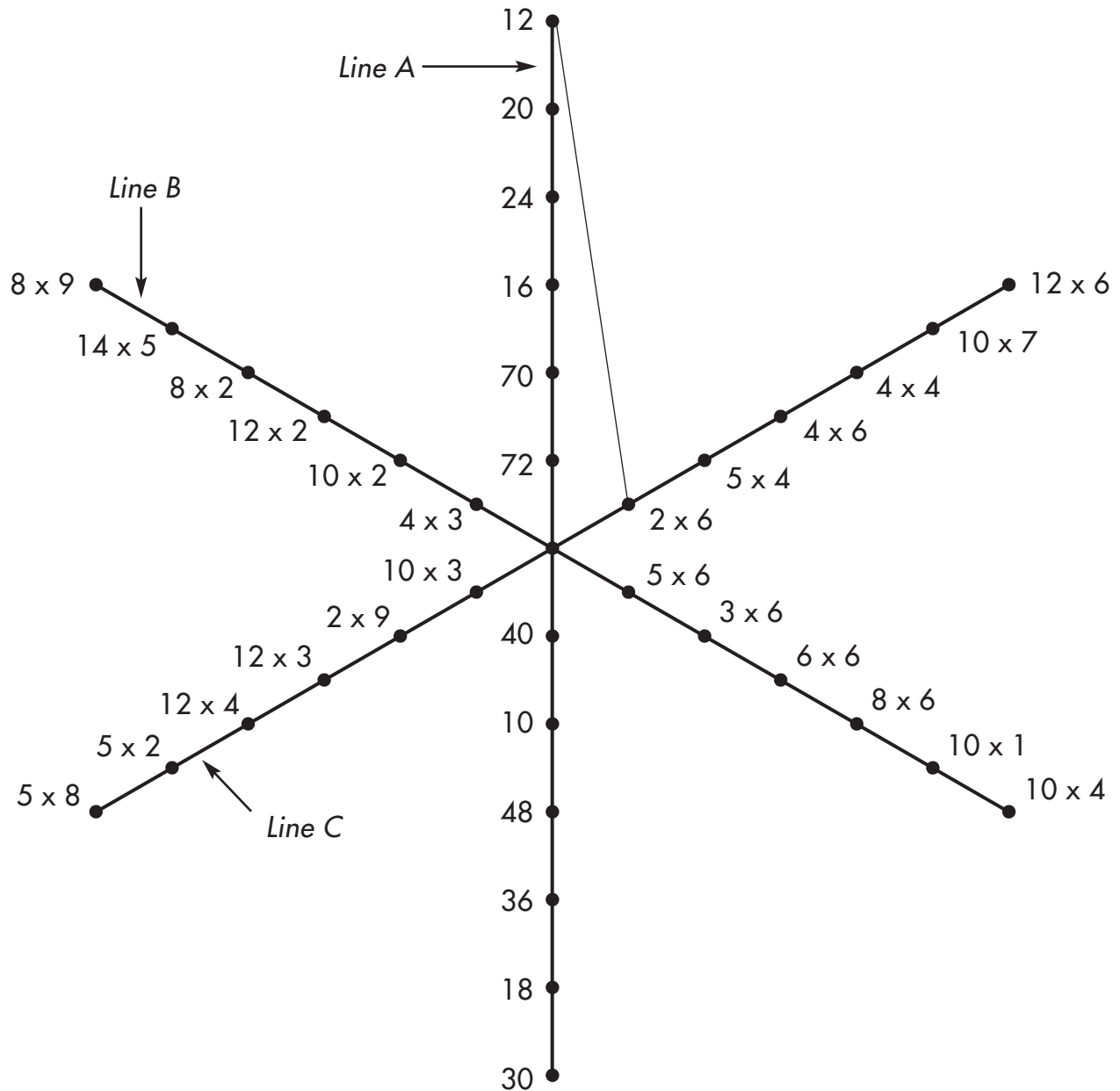
Solve the problems.

Then connect the dot beside each problem to the dot beside its answer. Two lines have been drawn for you. Some dots will not be used.

*Taking It Further:* There are 81 boxes of cereal. If the clerk puts them in rows of 9, how many rows will there be?



# Power Lines



Solve the problems.

Then connect the dot beside each problem on Lines B and C to the dot beside its answer on Line A. One line has been drawn for you.

*Taking It Further:*

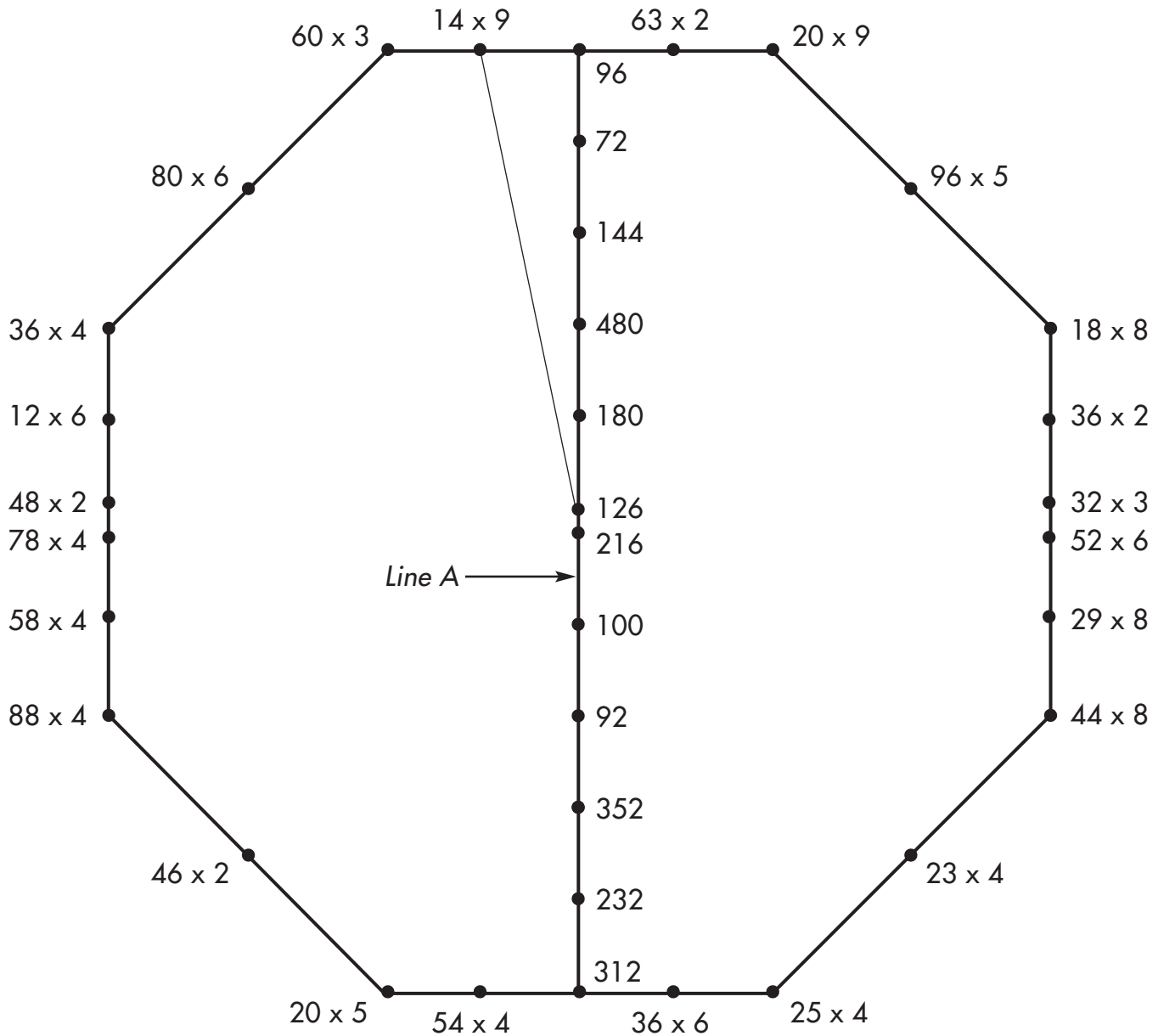
Fill in the missing numbers in this pattern.

12, 24, \_\_\_\_\_, 48, \_\_\_\_\_, 72, \_\_\_\_\_, \_\_\_\_\_, 108, \_\_\_\_\_, 132, \_\_\_\_\_.

Name all of the things you can think of that come in a dozen.



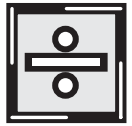
# Octagon Web



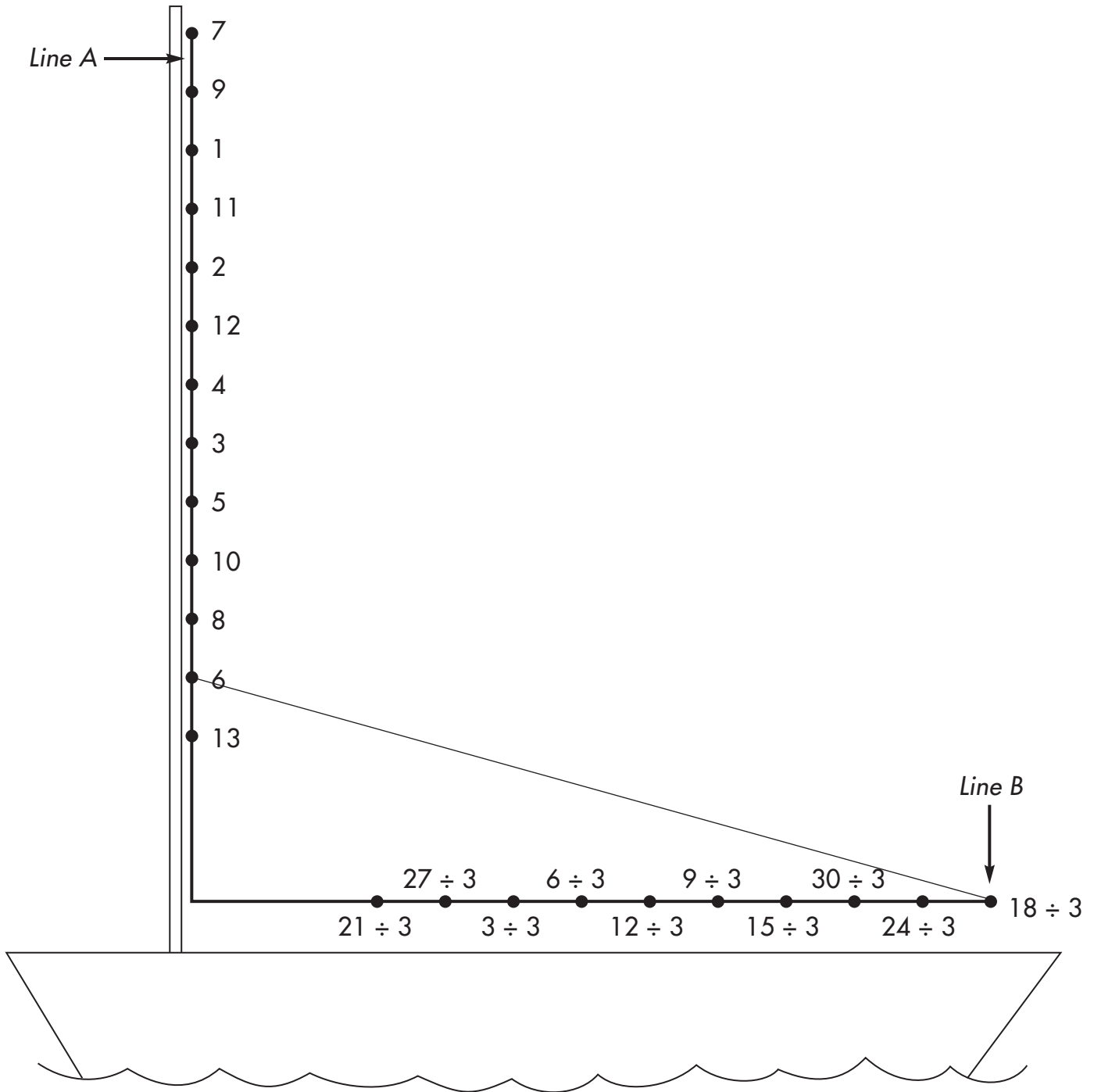
Solve the problems.

Then connect the dot beside each problem to the dot beside its answer on Line A. One line has been drawn for you.

*Taking It Further:* There are 27 students in class. If each student needs 4 pieces of construction paper to make an art project, how many pieces of construction paper will it take all together?



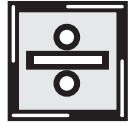
# Wind Seeker



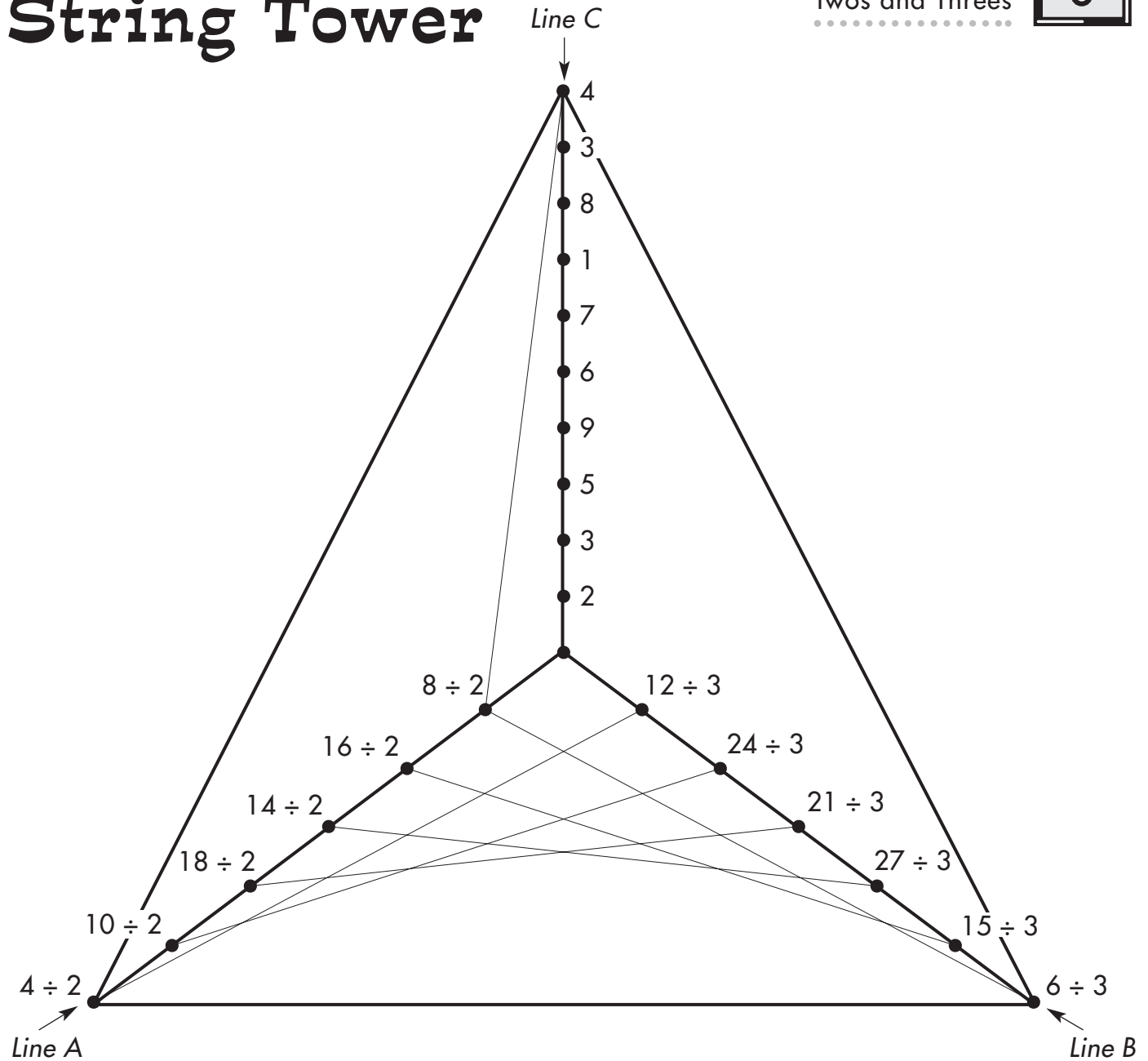
Solve the problems. Then connect the dot beside each problem on Line B to the dot beside its answer on Line A. One line has been drawn for you. Some dots will not be used.

*Taking It Further:* Circle the numbers that can be divided by 3 with no remainder.

- |   |    |    |    |    |    |    |    |    |   |
|---|----|----|----|----|----|----|----|----|---|
| 3 | 5  | 6  | 19 | 23 | 24 | 25 | 27 | 30 | 2 |
| 9 | 11 | 12 | 13 | 17 | 4  | 15 | 7  | 10 |   |



# String Tower



Solve the problems. Then connect the dot beside each problem on Line A with the dot beside its answer on Line C. One line has been drawn for you.

Connect the dot beside each problem on Line B to the dot beside its answer on Line C. Some dots will not be used.

*Taking It Further:* Solve these problems.

a.  $2 \div 2 = \underline{\quad}$

d.  $3 \div 3 = \underline{\quad}$

b.  $6 \div 2 = \underline{\quad}$

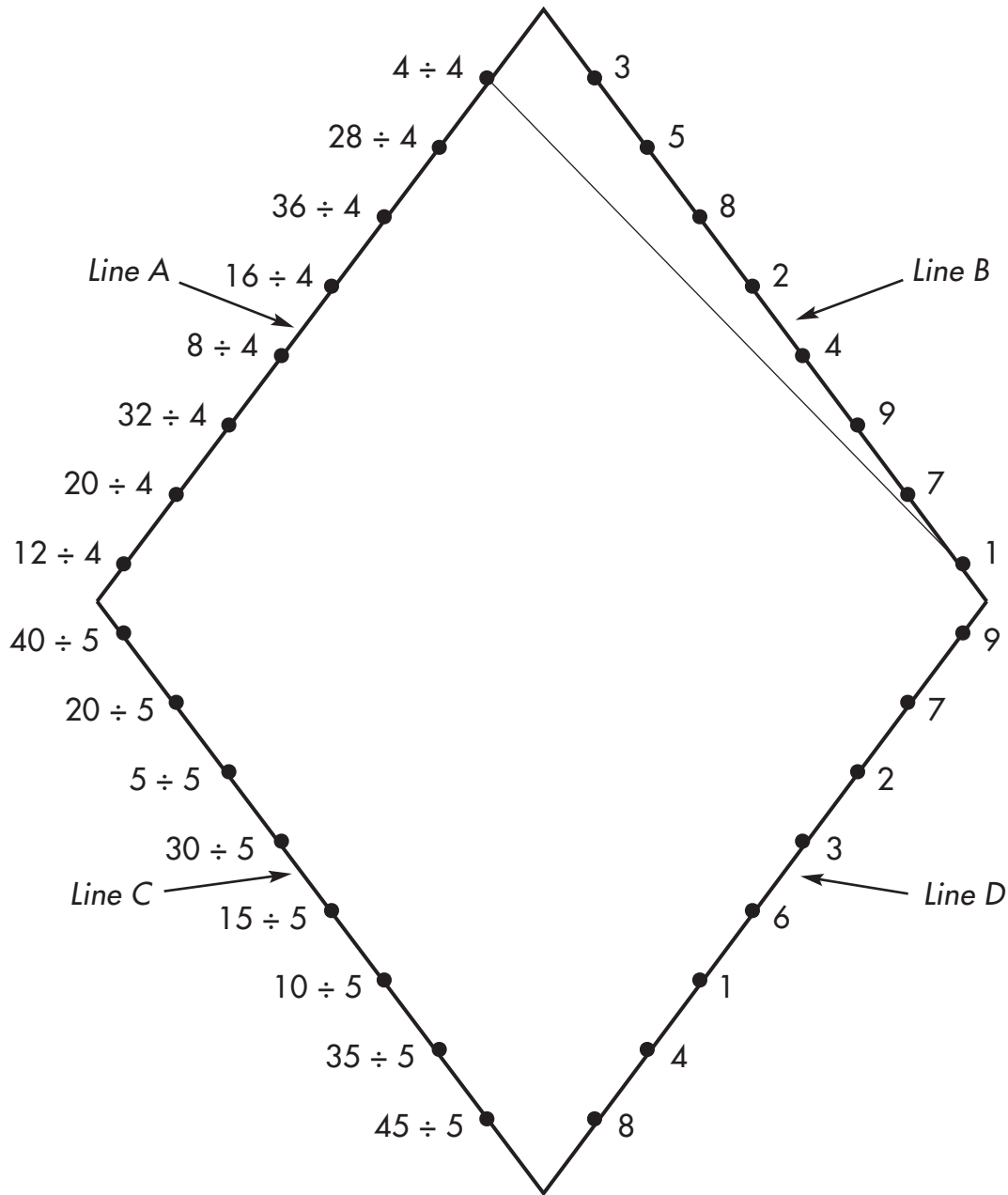
e.  $\underline{\quad} \div 3 = 3$

c.  $12 \div 2 = \underline{\quad}$

f.  $\underline{\quad} \div 3 = 6$



# Football



Solve the problems.

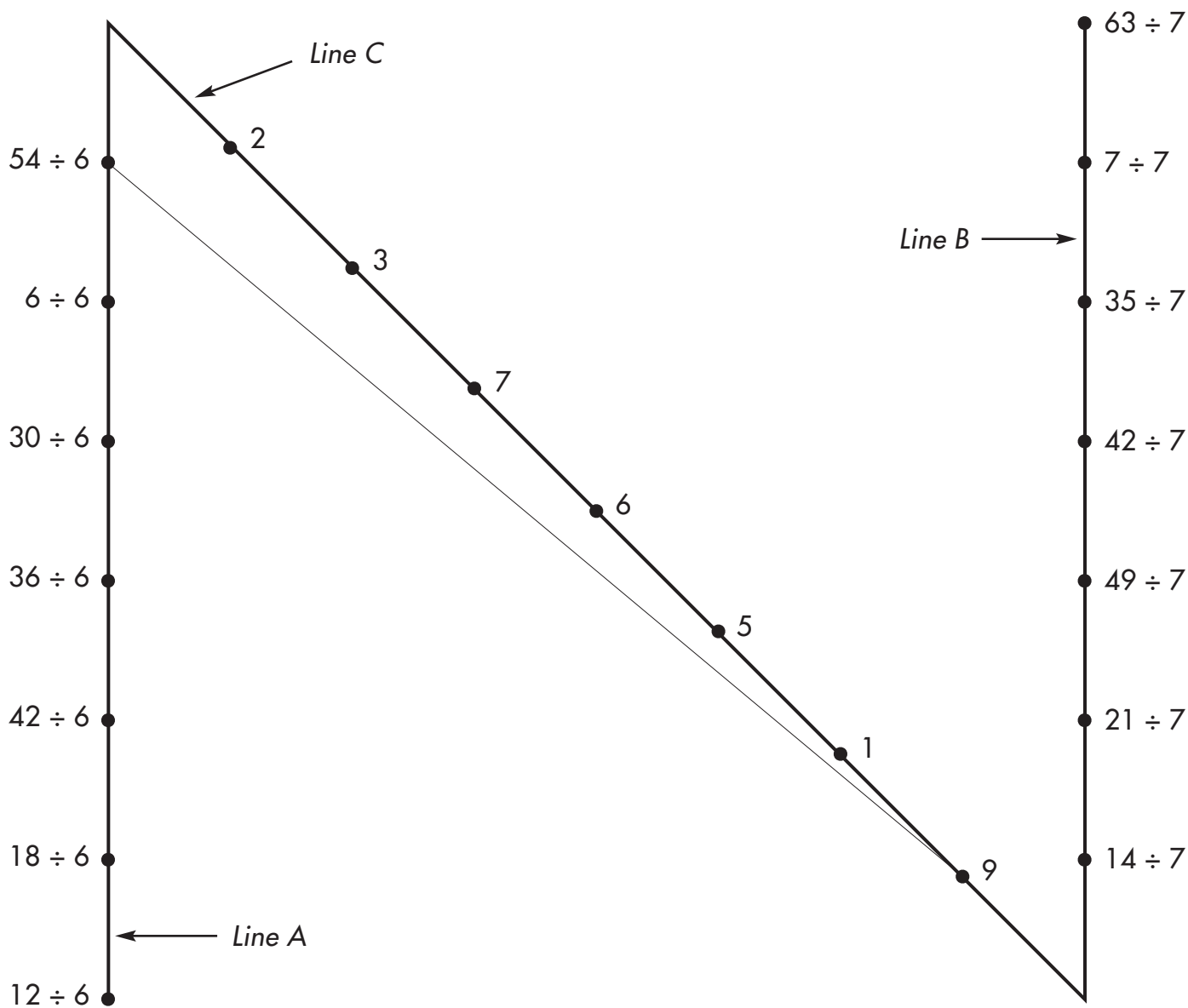
Then connect the dot beside each problem on Line A to the dot beside its answer on Line B. One line has been drawn for you.

Connect the dots beside each problem on Line C to the dot beside its answer on Line D.

*Taking It Further:* There are 40 people in line at the museum. If the guide lets them tour the museum in groups of 4, how many groups will there be?



# Over and Under



Solve the problems.

Then connect the dot beside each problem on Line A to the dot beside its answer on Line C. One line has been drawn for you.

Connect the dot beside each problem on Line B to the dot beside its answer on Line C.

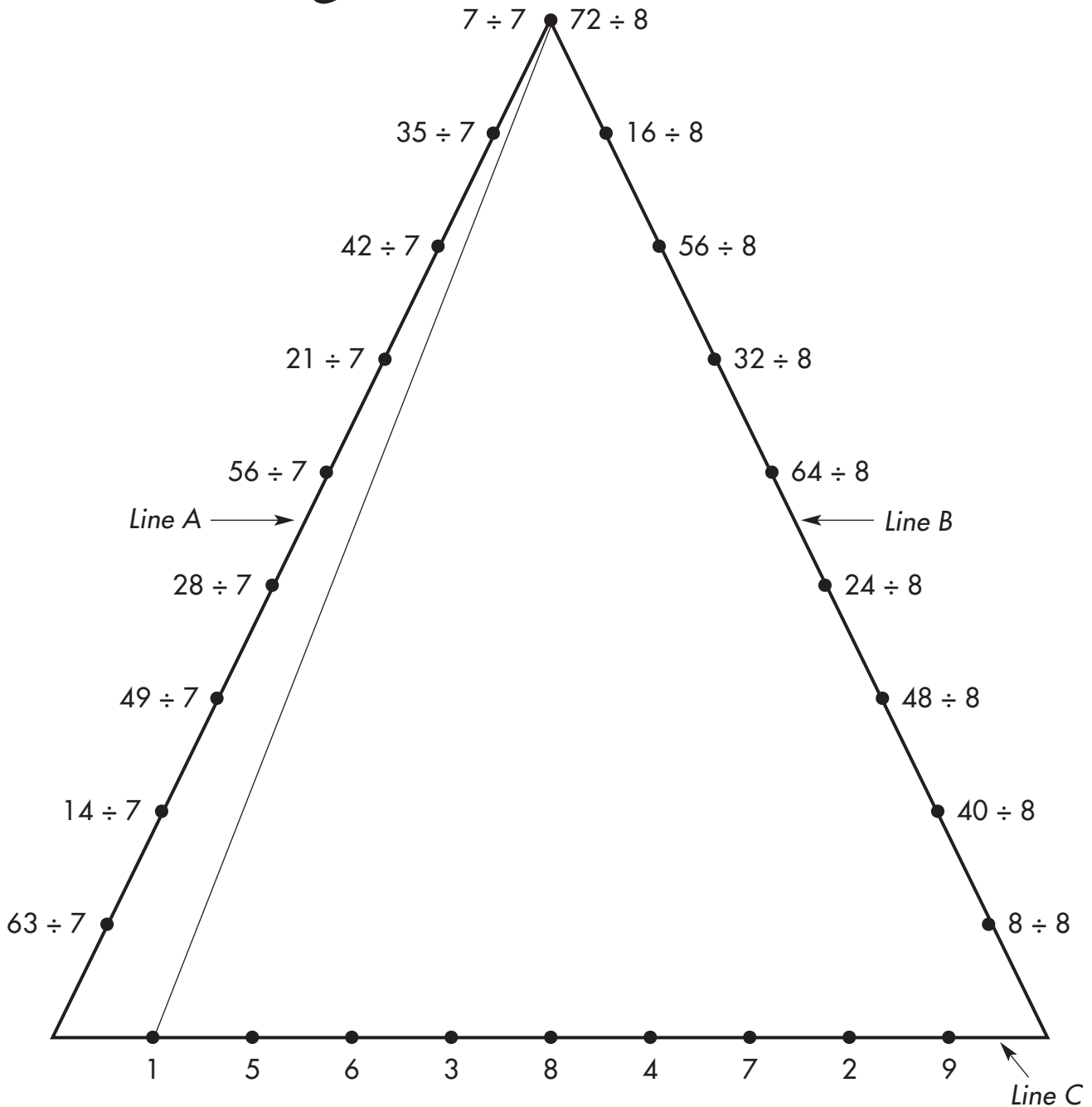
*Taking It Further:* Solve these problems.

- a.  $28 \div 7 = \underline{\quad}$     c.  $56 \div 7 = \underline{\quad}$     e.  $77 \div 7 = \underline{\quad}$     g.  $84 \div 7 = \underline{\quad}$     i.  $70 \div 7 = \underline{\quad}$   
 b.  $24 \div 6 = \underline{\quad}$     d.  $60 \div 6 = \underline{\quad}$     f.  $42 \div 6 = \underline{\quad}$     h.  $66 \div 6 = \underline{\quad}$     j.  $72 \div 6 = \underline{\quad}$





# Candlelight



Solve the problems.

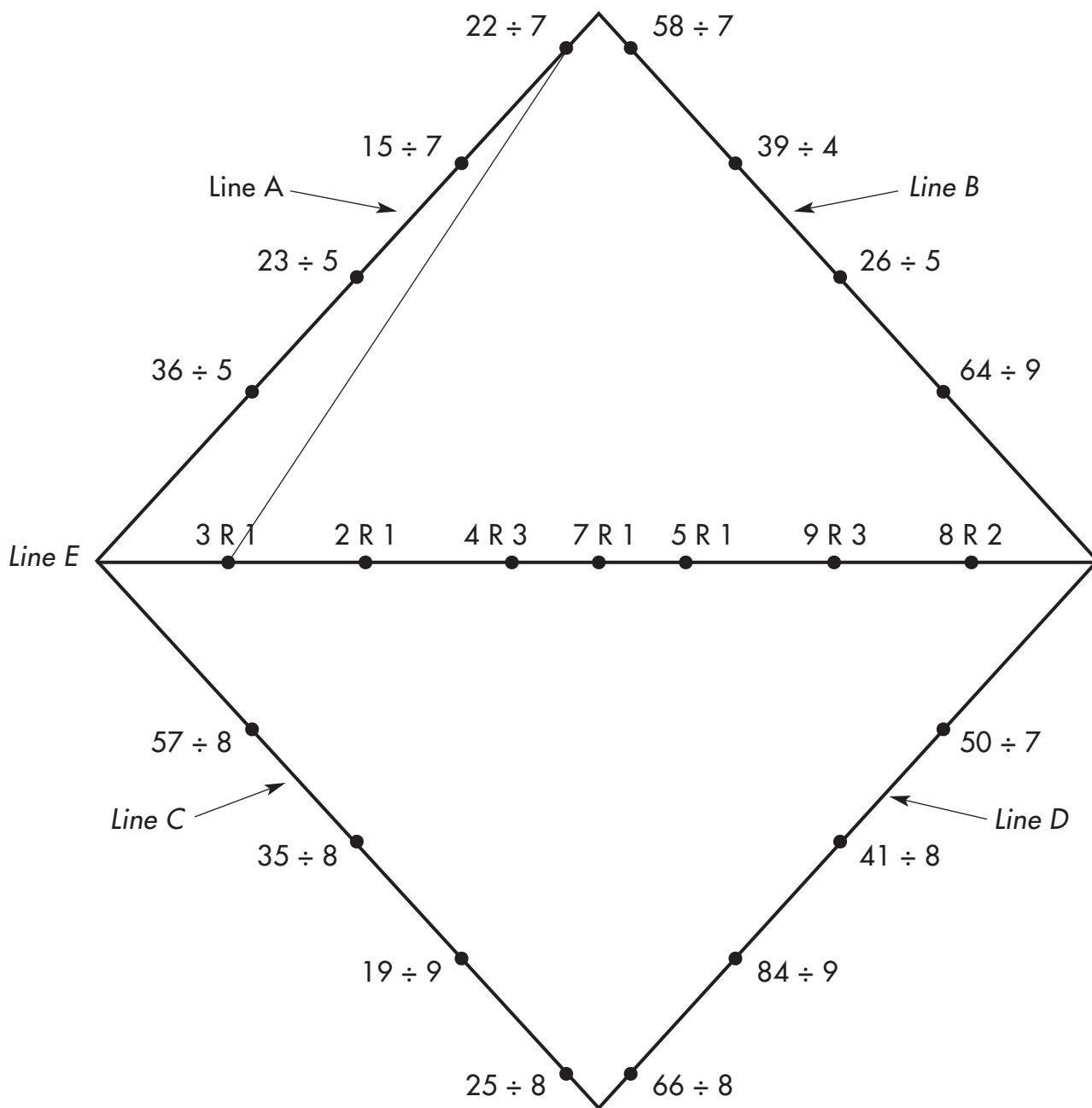
Then connect the dot beside each problem on Line A to the dot above its answer on Line C. One line has been drawn for you.

Connect the dot beside each problem on Line B to the dot above its answer on Line C.

*Taking It Further:* Write a word problem for this mathematical sentence:  
 $64 \div 8 = 8$ .



# Sparkling Diamond



Solve the problems.

Then connect the dot beside each problem on Lines A, B, C, and D to the dot beside its answer on Line E. One line has been drawn for you.

*Taking It Further:* Five people are playing a game of cards. The entire deck of 52 cards must be divided evenly among the players. How many cards will each player get? Will there be any cards left over? If so, how many?

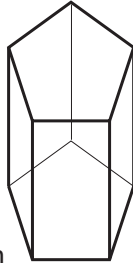
# How to Assemble the 3-D Constructions

The activity pages that follow (pages 44–61) give students the opportunity to color designs based on answers to mathematical problems and then construct them into three-dimensional shapes. While most of the designs are self-explanatory, this page gives complete construction directions.

**Rainbow Box** (page 44) and **Box of Many Colors** (page 53)

Cut out the pattern along the outer solid lines and fold along the dotted lines. Tape each flap to the underside of a pentagon or rectangle shape.

pentagonal prism

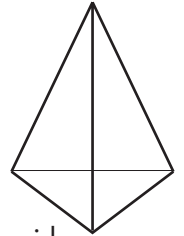


**Triangles and More Triangles**

(page 50) and **Triangle Twister** (page 56)

Cut out the pattern along the outer solid lines and fold along the dotted lines. Tape each flap to the underside of a triangle shape.

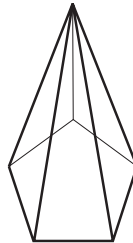
triangular pyramid



**Five-Sided Pyramid** (page 45) and **Subtraction Tepee** (page 49)

Cut out the pattern along the outer solid lines and fold along the dotted lines. Tape flap D to the underside of side D. Do the same thing with the rest of the flaps.

pentagonal pyramid



**Optical Illusion** (page 51) and **Gemstones** (page 54)

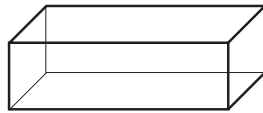
Cut out the pattern along the outer solid lines and fold along the dotted lines. Tape each flap to the underside of the cylinder.



cylinder

**Treasure Chest** (page 46) and **Boxcar** (page 52)

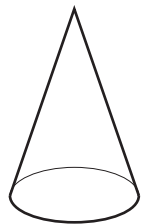
Cut out the pattern along the outer solid lines and fold along the dotted lines. Tape each flap to the underside of either a rectangle or a square shape.



rectangular prism

**Sunshine** (page 55) and **Eye Dazzler** (page 58)

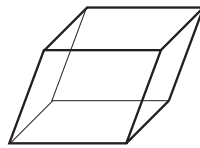
Cut out the pattern along the outer solid lines and fold along the dotted lines. Tape each flap to the inside of the cone.



cone

**Addition Fun** (page 47) and **Leaning Cube** (page 59)

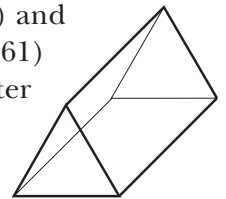
Cut out the pattern along the outer solid lines and fold along the dotted lines. Tape each flap to the underside of a rhombus shape.



rhombus

**Triangle Patches** (page 60) and **Checkerboard Tent** (page 61)

Cut out the pattern along the outer solid lines and fold along the dotted lines. Tape each flap to the underside of a rectangle shape.



triangular prism

**Holiday Ornament** (page 48) and **Ice Crystal** (page 57)

Cut out the pattern along the outer solid lines and fold along the dotted lines. Tape each flap to the underside of a triangle shape.



octahedron

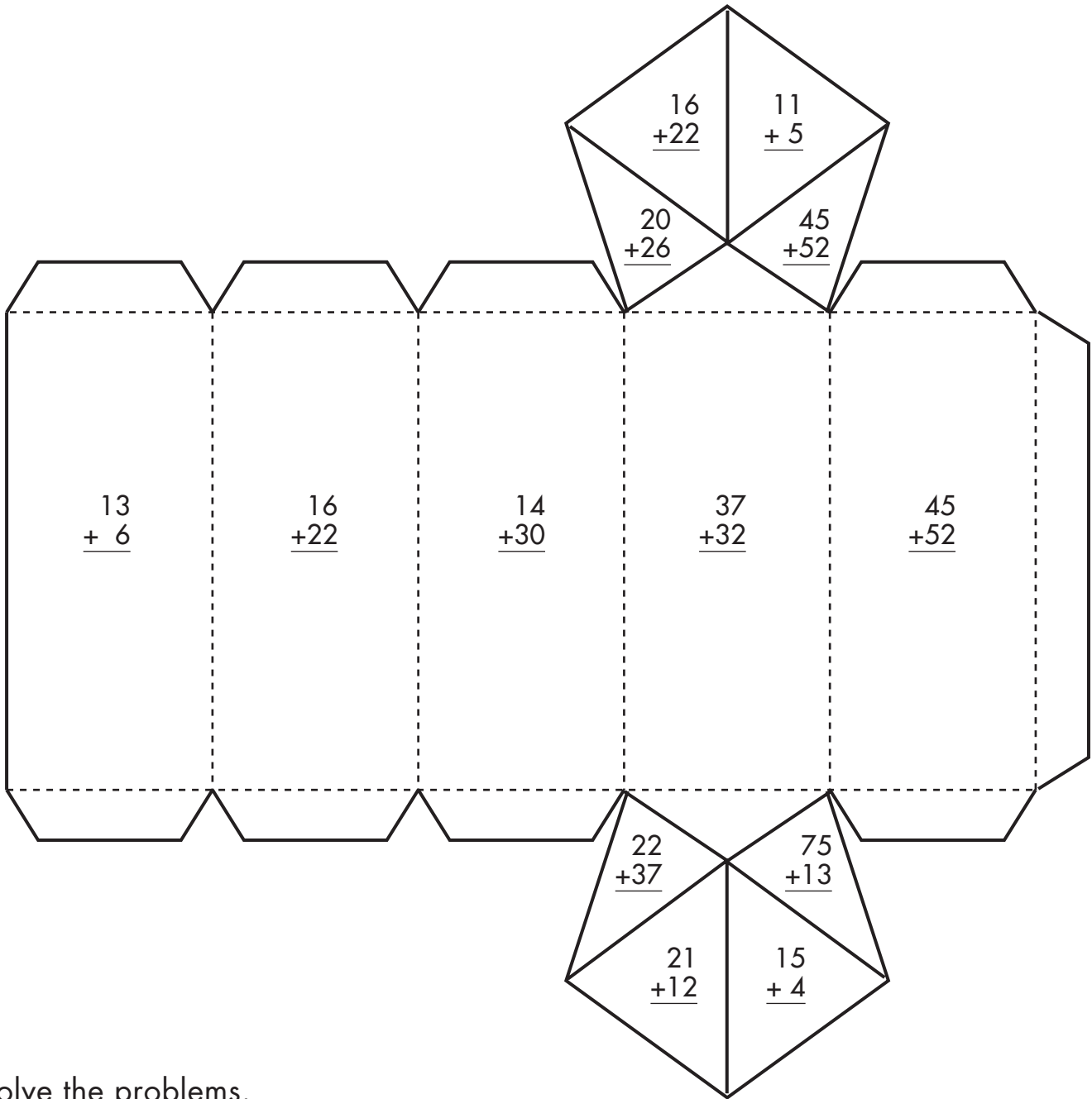
Name \_\_\_\_\_

## ADDITION



Two Digits Without Regrouping

# Rainbow Box



Solve the problems.

If the answer is between 1 and 20, color the shape green.

If the answer is between 21 and 40, color the shape yellow.

If the answer is between 41 and 60, color the shape orange.

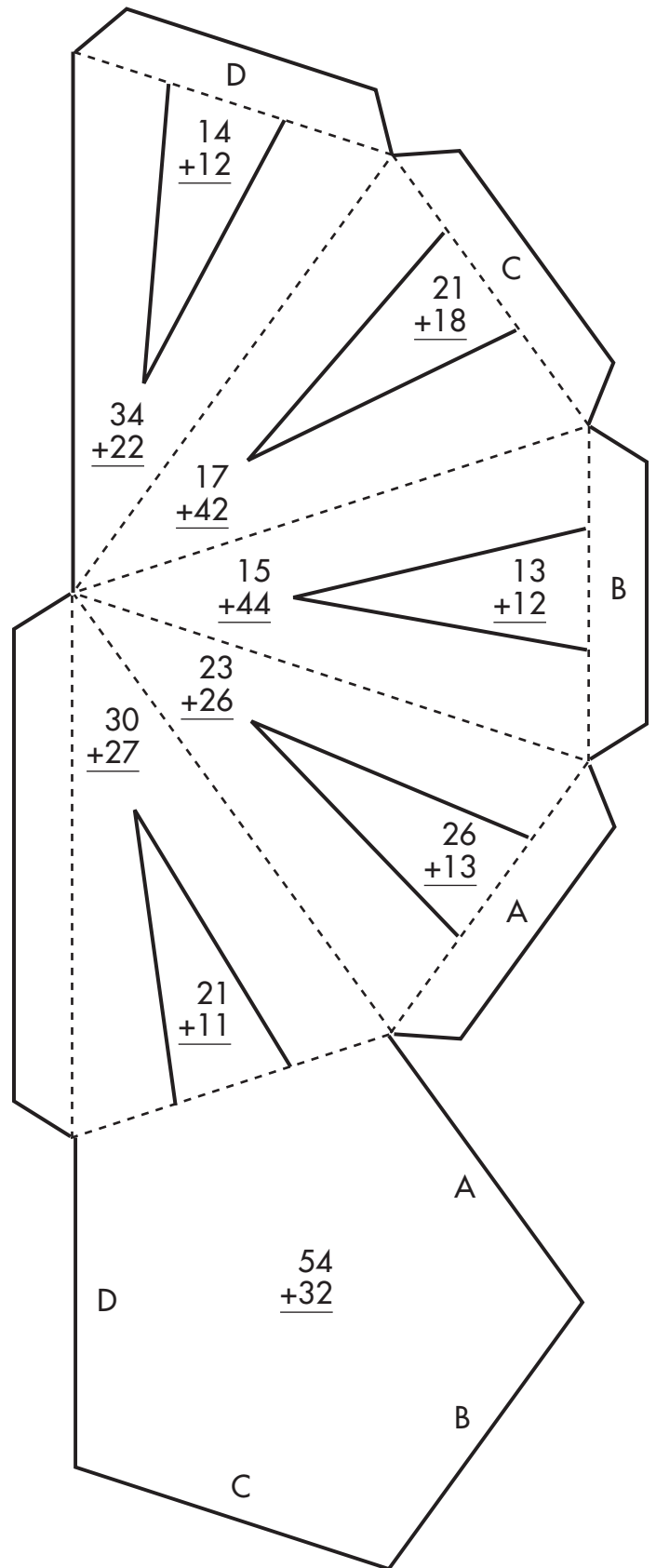
If the answer is between 61 and 80, color the shape red.

If the answer is between 81 and 99,  
color the shape blue.

For more fun, cut out the design and fold it into a .



# Five-Sided Pyramid



Solve the problems.

If the answer is between 1 and 40,  
color the shape yellow.

If the answer is between 41 and 60,  
color the shape green.

If the answer is between 61 and 90,  
color the shape orange.

For more fun, cut out the  
design and fold it into a .



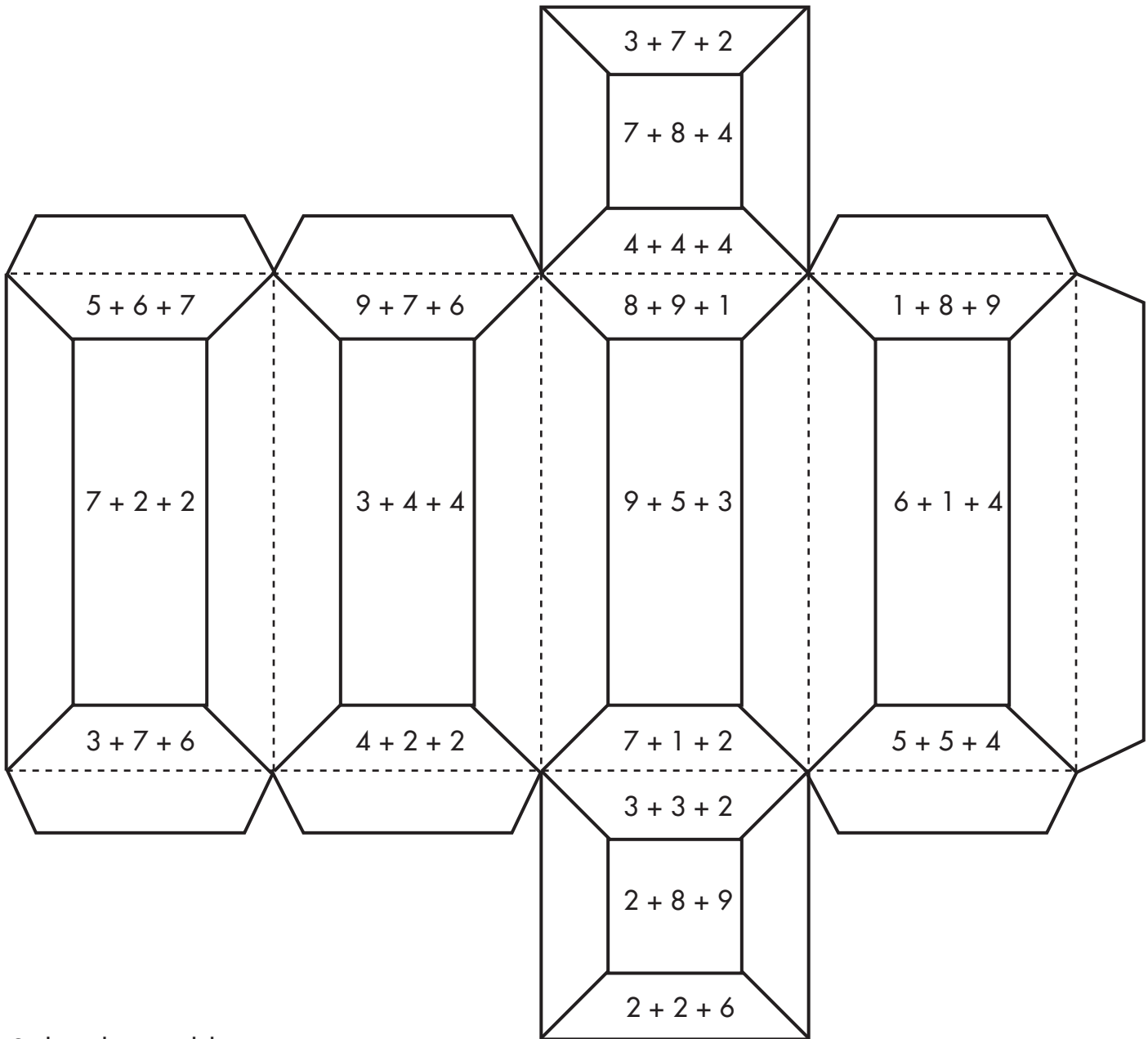
Name \_\_\_\_\_

**ADDITION**

Three Addends



# Treasure Chest



Solve the problems.

If the answer is even, color the shape red.

If the answer is odd, color the shape purple.

Finish the design by coloring the other shapes with the colors of your choice.

For more fun, cut out the design and fold it into a  .

Name \_\_\_\_\_

## ADDITION



Three Digits Without Regrouping

# Addition Fun

119  
+320

405  
+351

150  
+142

311  
+172

222  
+317

103  
+125

262  
+225

132  
+815

140  
+254

117  
+332

254  
+305

129  
+150

331  
+122

142  
+456

412  
+ 53

364  
+131

364  
+234

176  
+310

Solve the problems.

If the answer is less than 500,  
color the shape blue.

If the answer is greater than 500,  
color the shape yellow.

Finish the design by coloring the other shapes with the colors of your choice.

For more fun, cut out the design and fold it into a .

Name \_\_\_\_\_

## ADDITION

Three Digits With Regrouping



# Holiday Ornament

117  
+493

264  
+178

392  
+288

119  
+192

415  
+128

104  
+297

569  
+368

199  
+214

Solve the problems.

If the answer is less than 500,  
color the shape green.

If the answer is greater than 500,  
color the shape red.

For more fun, cut out the design and fold it into a







# Subtraction Tepee

Subtraction problems within the tepee sections:

- Section D (top):  $14 - 12$
- Section C (top right):  $67 - 42$
- Section B (middle right):  $57 - 36$
- Section A (middle left):  $21 - 10$
- Section D (bottom left):  $54 - 32$
- Section C (bottom right):  $69 - 46$
- Section B (middle):  $88 - 35$
- Section A (middle):  $96 - 42$
- Section D (middle):  $81 - 11$
- Section C (middle):  $59 - 17$
- Section B (middle):  $67 - 22$
- Section A (middle):  $99 - 44$
- Section D (middle):  $79 - 12$
- Section C (middle):  $78 - 28$
- Section B (middle):  $87 - 16$
- Section A (middle):  $64 - 33$
- Section D (middle):  $92 - 11$
- Section C (middle):  $98 - 22$
- Section B (middle):  $44 - 11$
- Section A (middle):  $79 - 23$
- Section D (middle):  $54 - 12$

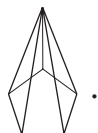
Solve the problems.

If the answer is between 1 and 30, color the shape black.

If the answer is between 31 and 60, color the shape red.

If the answer is between 61 and 90, color the shape yellow.

For more fun, cut out the design and fold it into a



Name \_\_\_\_\_

# SUBTRACTION

Two Digits With Regrouping



# Triangles and More Triangles

32  
-14

77  
-39

91  
-16

66  
-18

96  
-18

84  
-19

73  
-37

77  
-18

80  
-46

70  
-24

43  
-37

95  
-28

57  
-39

68  
-9

40  
-18

60  
-56

85  
-37

93  
-18

96  
-48

43  
-25

74  
-17

94  
-48

27  
-9

70  
-13

24  
-18

32  
-28

76  
-9

23  
-15

80  
-27

66  
-28

31  
-19

54  
-46

95  
-36

81  
-43

88  
-29

74  
-46

Solve the problems.

If the answer is even, color the shape blue.

If the answer is odd, color the shape red.

For more fun, cut out the design and fold it into a .

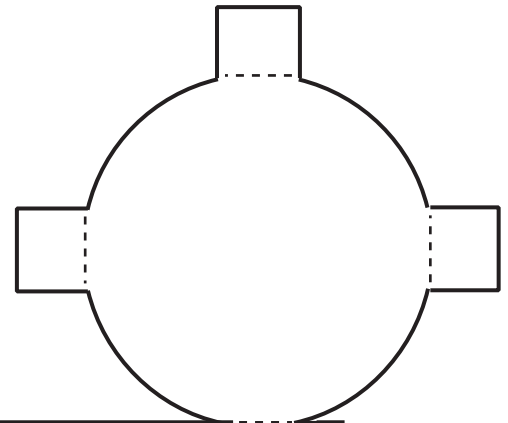
Name \_\_\_\_\_

# SUBTRACTION

Two Digits With Regrouping



# Optical Illusion



$\begin{array}{r} 43 \\ -24 \\ \hline \end{array}$	$\begin{array}{r} 60 \\ -8 \\ \hline \end{array}$	$\begin{array}{r} 22 \\ -16 \\ \hline \end{array}$	$\begin{array}{r} 90 \\ -14 \\ \hline \end{array}$
$\begin{array}{r} 98 \\ -29 \\ \hline \end{array}$	$\begin{array}{r} 76 \\ -58 \\ \hline \end{array}$	$\begin{array}{r} 95 \\ -27 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ -9 \\ \hline \end{array}$
$\begin{array}{r} 31 \\ -13 \\ \hline \end{array}$	$\begin{array}{r} 77 \\ -18 \\ \hline \end{array}$	$\begin{array}{r} 82 \\ -64 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ -28 \\ \hline \end{array}$
$\begin{array}{r} 78 \\ -19 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ -59 \\ \hline \end{array}$	$\begin{array}{r} 64 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 62 \\ -37 \\ \hline \end{array}$
$\begin{array}{r} 96 \\ -25 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ -9 \\ \hline \end{array}$	$\begin{array}{r} 82 \\ -17 \\ \hline \end{array}$	$\begin{array}{r} 75 \\ -16 \\ \hline \end{array}$
$\begin{array}{r} 63 \\ -25 \\ \hline \end{array}$	$\begin{array}{r} 87 \\ -68 \\ \hline \end{array}$		

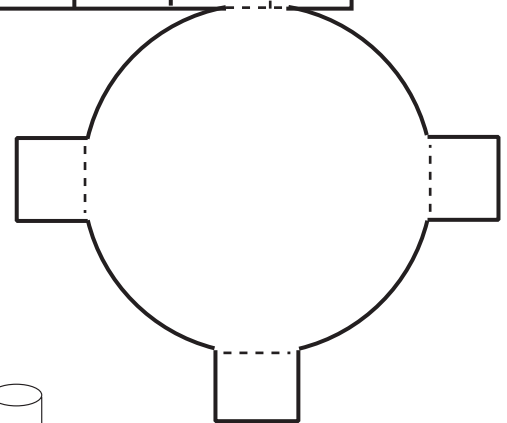
Solve the problems.

If the answer is between 0 and 25,  
color the shape orange.

If the answer is between 26 and 99,  
color the shape black.

Finish the design by coloring the other  
shapes with the colors of your choice.

For more fun, cut out the design and fold it into a .



Name \_\_\_\_\_

# SUBTRACTION

Three Digits Without Regrouping



# Boxcar

918  
-707

808  
-301

599  
-501

818  
-313

347  
-102

510  
-210

689  
-251

919  
-212

745  
-115

787  
-622

459  
-233

934  
-401

667  
-23

693  
-183

670  
-560

895  
-120

587  
-257

698  
-693

Solve the problems.

If the answer is between 1 and 500,  
color the shape black.

If the answer is between 501 and 999,  
color the shape red.

For more fun, cut out the design and fold it into a  .

Name \_\_\_\_\_

# SUBTRACTION

Three Digits Without Regrouping



# Box of Many Colors

784  
-111

598  
-247

214  
-103

965  
-133

999  
-399

473  
-142

814  
-210

692  
-581

710  
-210

975  
-152

388  
-221

683  
-233

997  
-196

678  
-333

985  
-205

577  
-241

988  
-117

801  
-200

782  
-251

890  
-730

Solve the problems.

If the answer is between 0 and 200,  
color the shape red.

If the answer is between 201 and 400,  
color the shape orange.

If the answer is between 401 and 600,  
color the shape yellow.

If the answer is between 601 and 800,  
color the shape blue.

If the answer is between 801 and 999,  
color the shape purple.

For more fun, cut out the design and fold it into a .

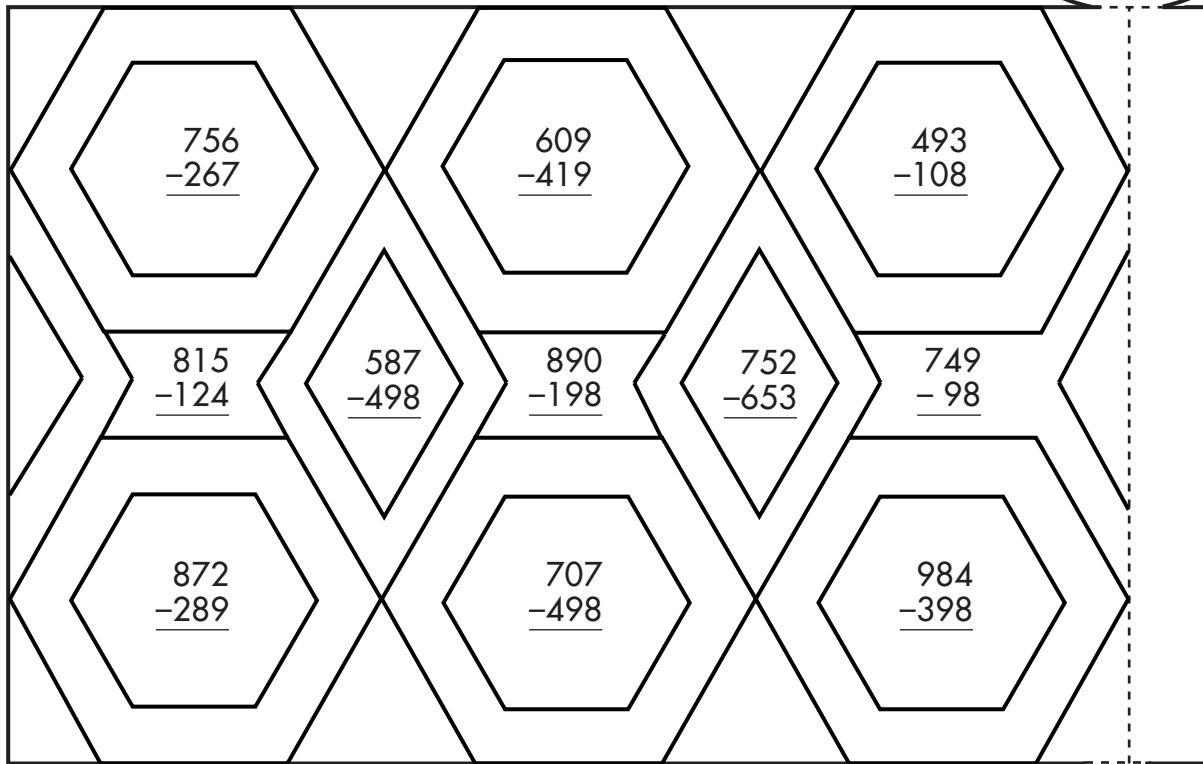
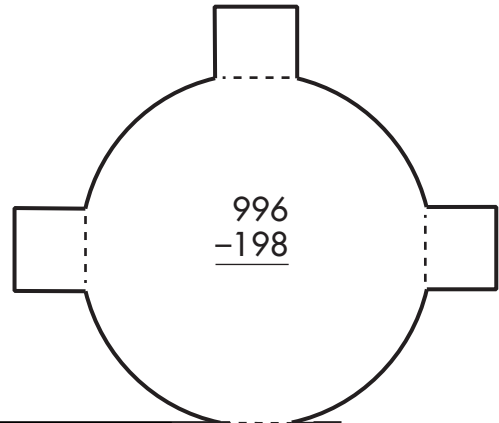
Name \_\_\_\_\_

## SUBTRACTION

Three Digits With Regrouping



# Gemstones



Solve the problems.

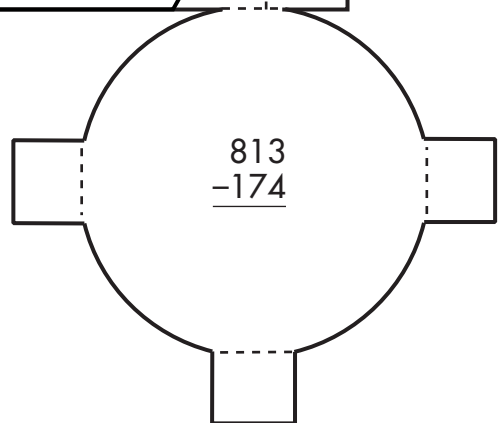
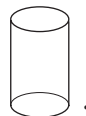
If the answer is between 0 and 300,  
color the shape red.

If the answer is between 301 and 600,  
color the shape green.

If the answer is between 601 and 999,  
color the shape yellow.

Finish the design by coloring the  
other shapes with the colors of your choice.

For more fun, cut out the design and fold it into a






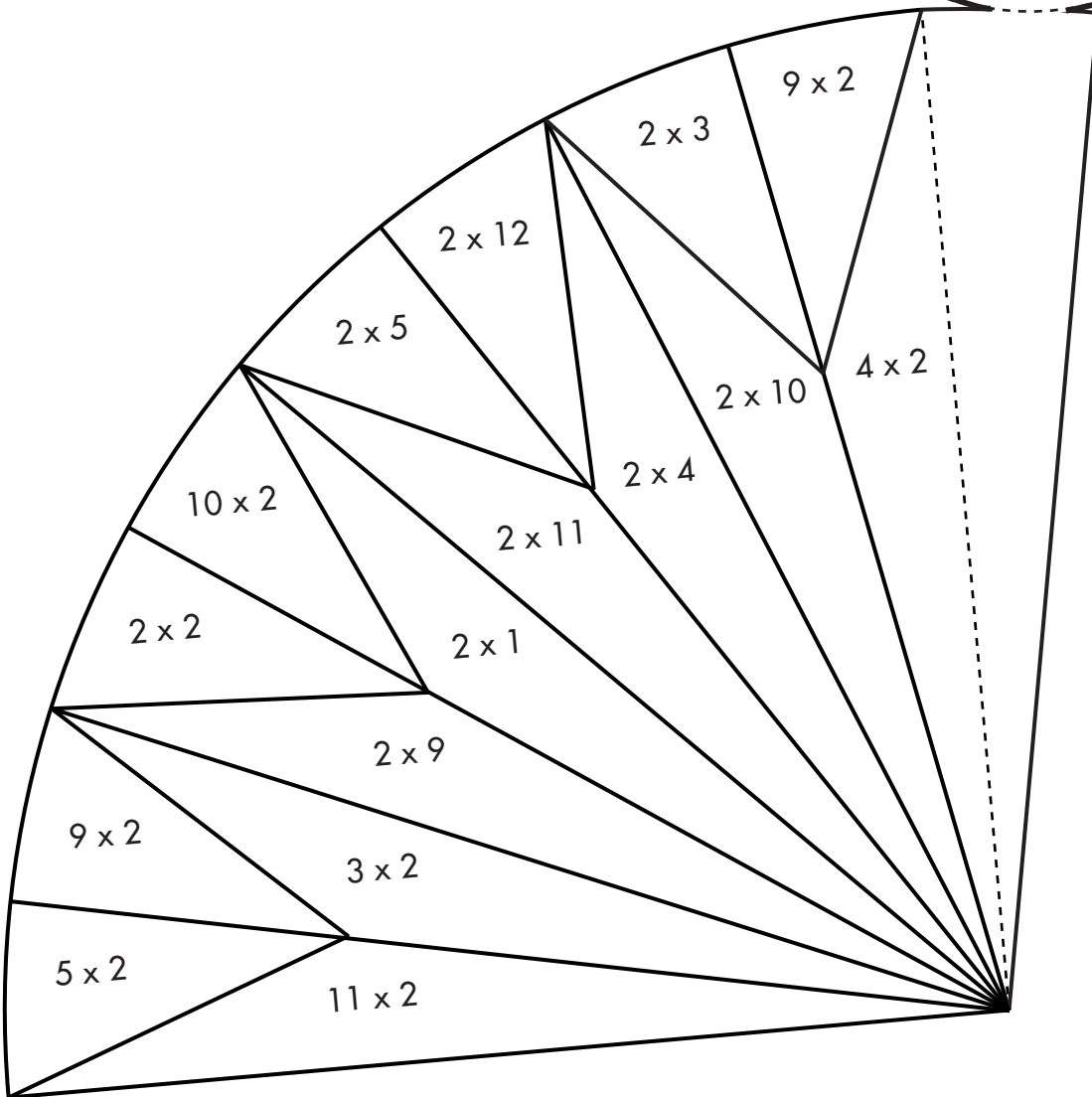
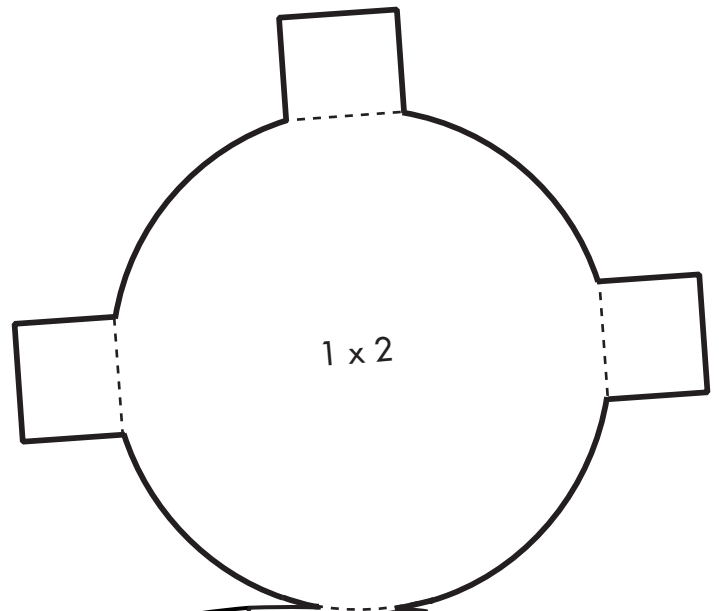
# Sunshine

Solve the problems.

If the answer is between 1 and 12,  
color the shape yellow.

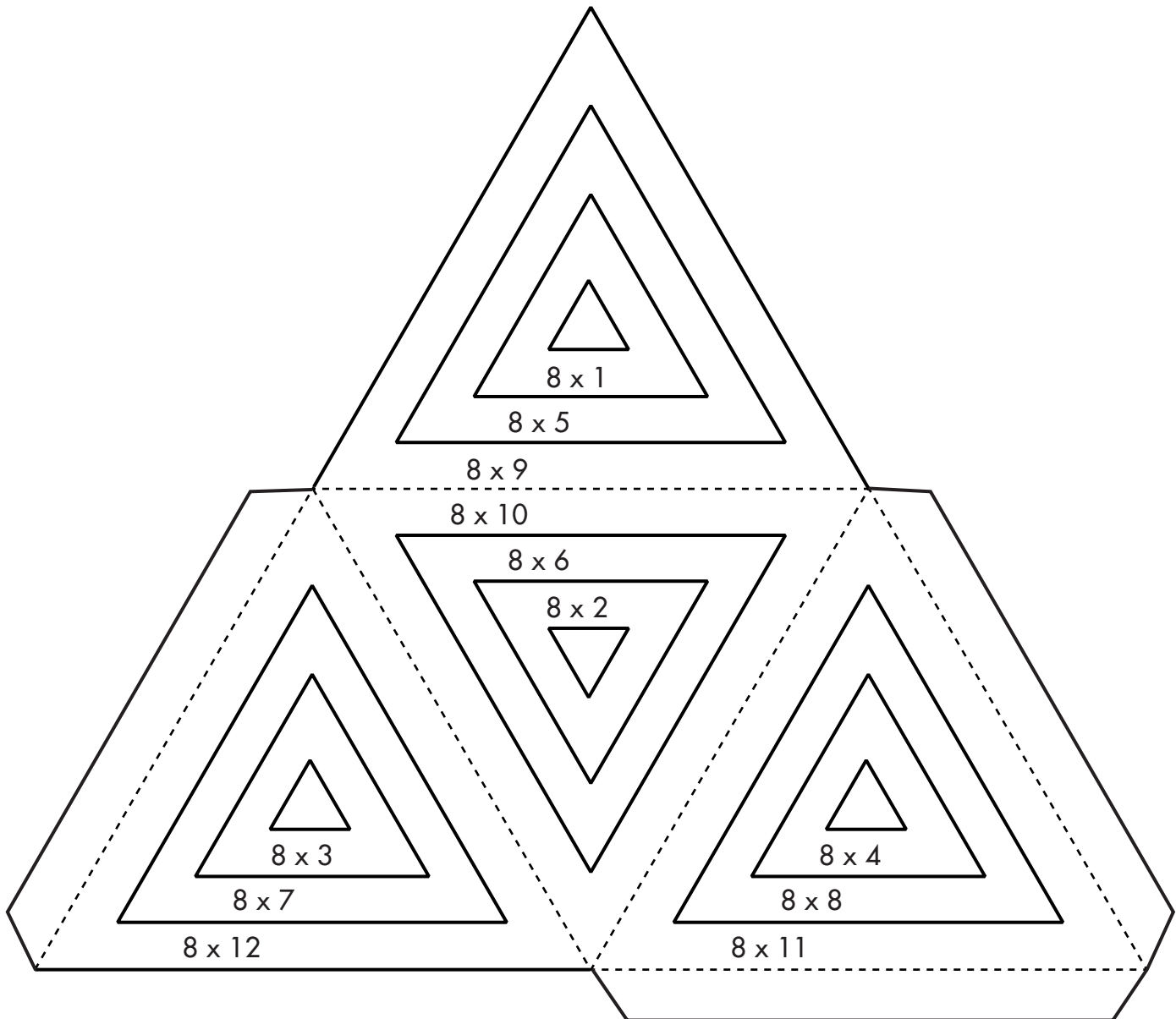
If the answer is between 13 and 24,  
color the shape orange.

For more fun,  
cut out the design and fold it into a .





# Triangle Twister



Solve the problems.

Color the center triangles yellow.

If the answer is between 1 and 33,  
color the shape orange.

If the answer is between 34 and 65,  
color the shape purple.

If the answer is between 66 and 99,  
color the shape blue.

For more fun, cut out the design and fold it into a .



Name \_\_\_\_\_

# MULTIPLICATION

Three Digits × One Digit



# Ice Crystal

107  
x 3

142  
x 6

214  
x 4

511  
x 3

918  
x 4

147  
x 1

173  
x 9

315  
x 6

175  
x 5

212  
x 7

119  
x 5

144  
x 9

107  
x 7

816  
x 6

149  
x 7

Solve the problems.

If the answer is an even number,  
color the shape orange.

If the answer is an odd number,  
color the shape brown.

For more fun, cut out the design and fold it into a .





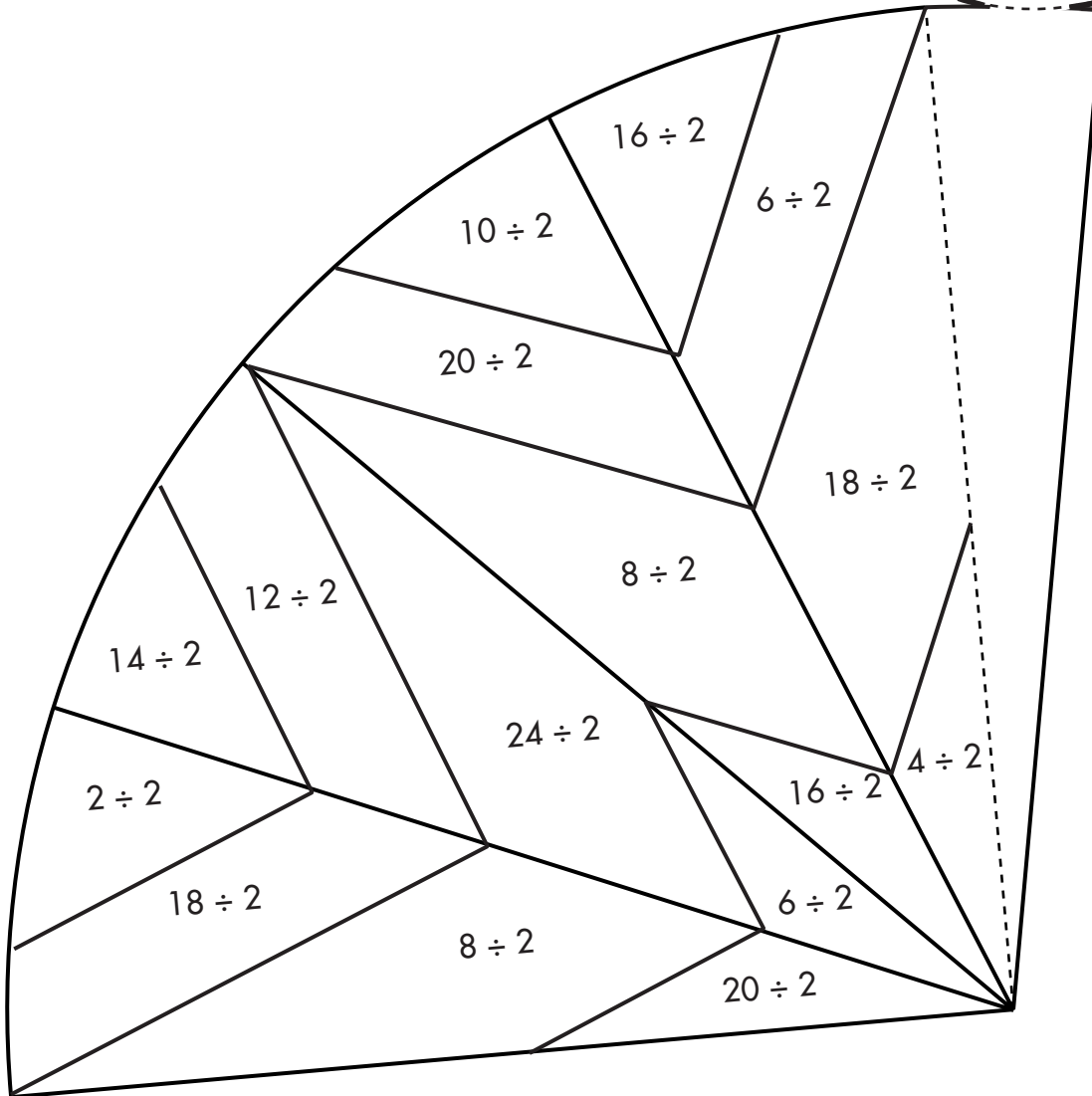
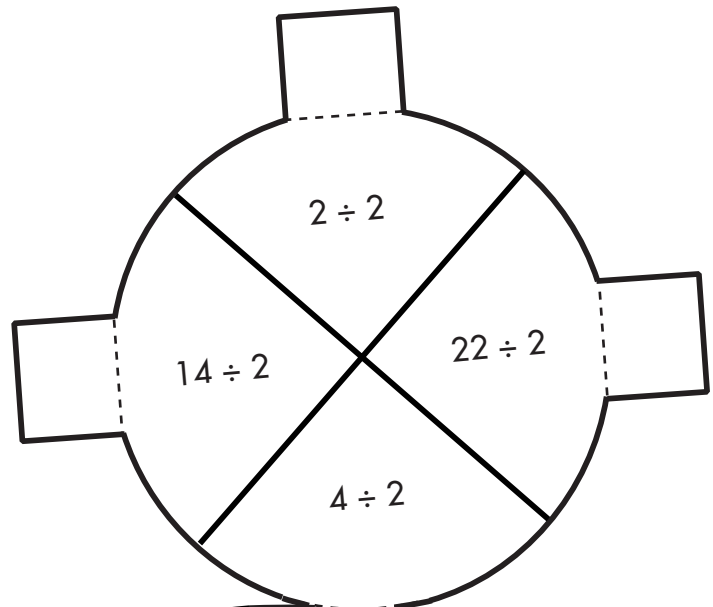
# Eye Dazzler

Solve the problems.

If the answer is between 1 and 6,  
color the shape red.

If the answer is between 7 and 12,  
color the shape orange.

For more fun,  
cut out the design and fold it into a



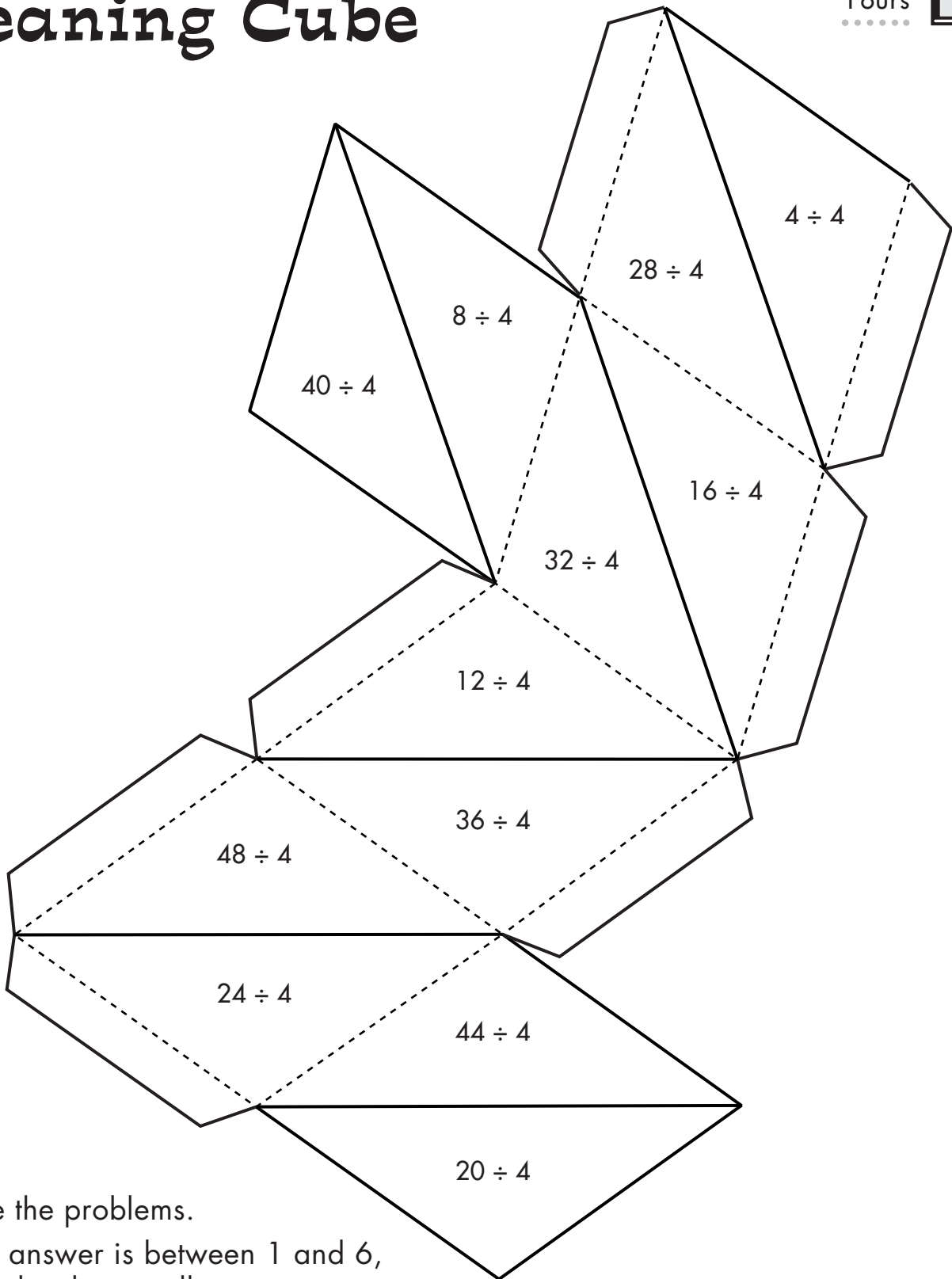
Name \_\_\_\_\_

**DIVISION**

Fours



# Leaning Cube

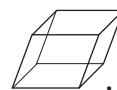


Solve the problems.

If the answer is between 1 and 6,  
color the shape yellow.

If the answer is between 7 and 12,  
color the shape blue.

For more fun, cut out the design and fold it into a



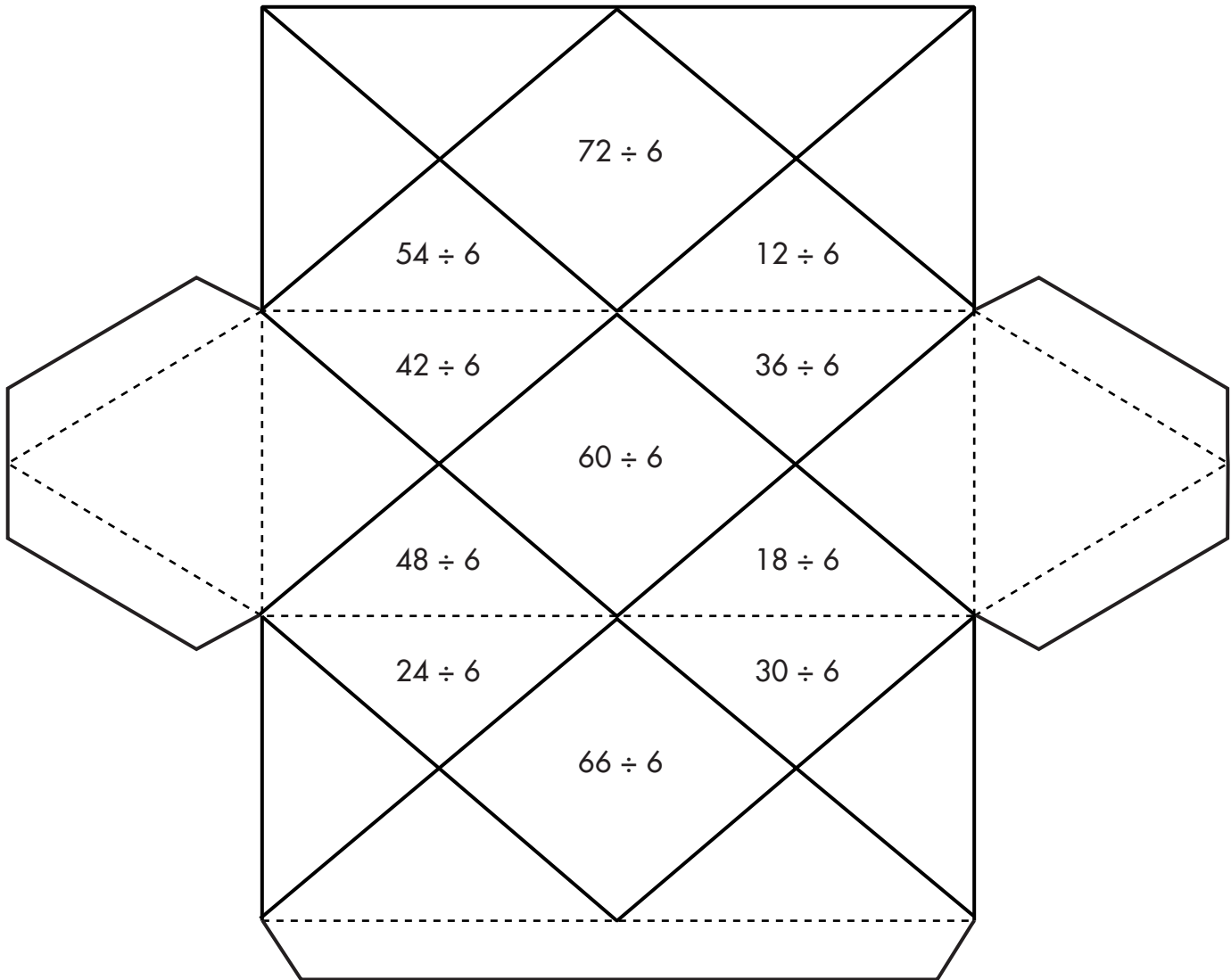
Name \_\_\_\_\_

**DIVISION**

Sixes



# Triangle Patches



Solve the problems.

If the answer is 9 or less, color the shape green.

If the answer is 10 or greater, color the shape orange.

Finish the design by coloring the other shapes with the colors of your choice.

For more fun, cut out the design and fold it into a .

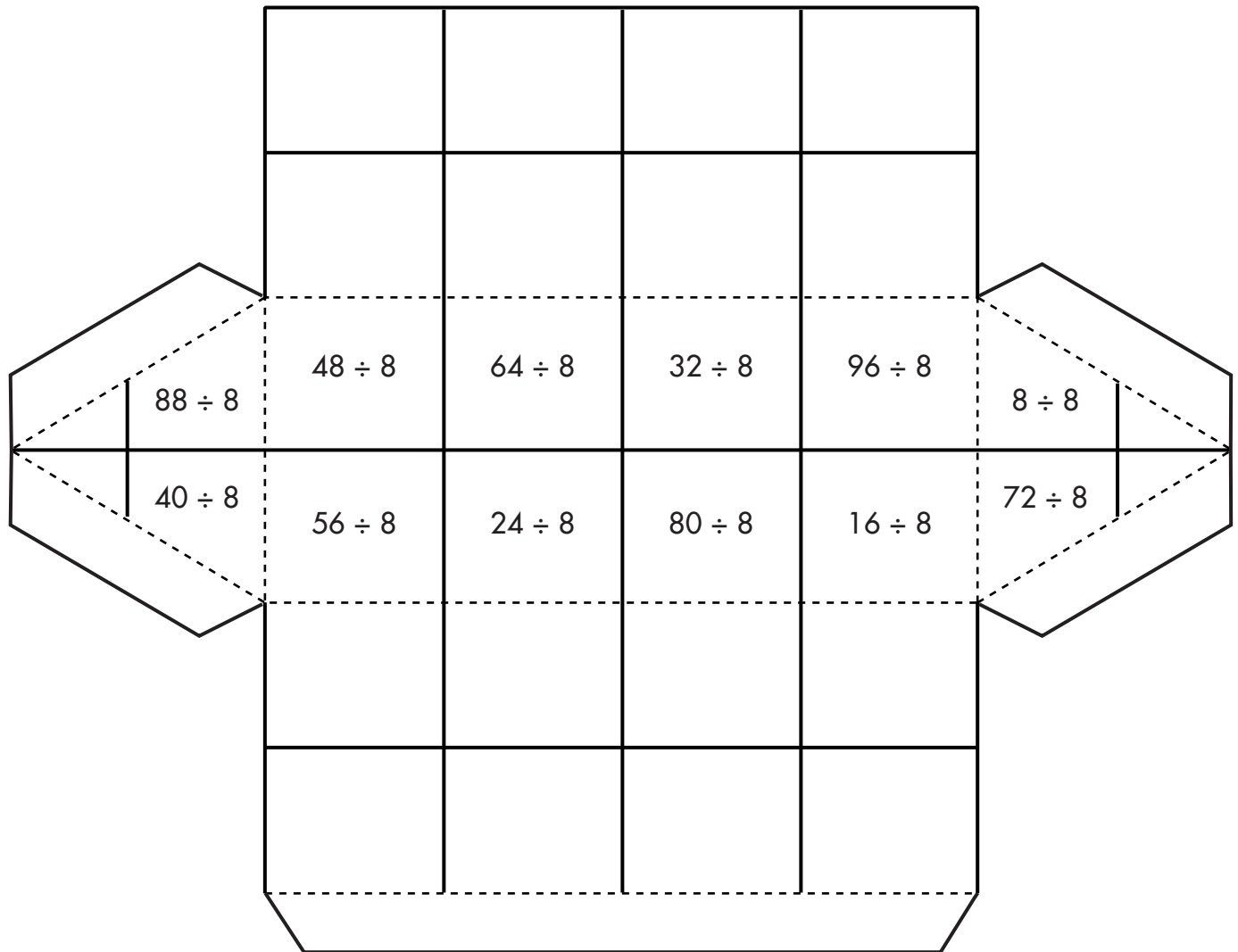
Name \_\_\_\_\_

**DIVISION**

Eights



# Checkerboard Tent



Solve the problems.

If the answer is between 1 and 6, color the shape black.

If the answer is between 7 and 12, color the shape red.

Continue the pattern by coloring every other shape red or black.

For more fun, cut out the design and fold it into a .

# Answers

Answers for *Taking It Further* questions, pages 8–42.

**Page 8: Tumbling Boxes**

99, 86, 83, 73, 70, 69, 66, 58, 54, 49, 48, 44, 41, 35, 33, 29, 27, 26, 22

**Page 9: Kaleidoscope**

Answers will vary.

**Page 10: Blooming Octagon**

750, 900, 1,050

**Page 11: Super Star**

Answers will vary.

**Page 12: Grandma's Quilt**

She had 15 tickets left.

**Page 13: Morning Glory**

594

**Page 14: Building Blocks**

24 feet

**Page 15: Stargazer**

28, 35, 49, 56, 63, 77, and 84

**Page 16: Space Traveler**

$8 \times 49 = 392$

**Page 17: Locking Boxes**

1 day

**Page 18: Star-Struck Multiplication**

45, 36, and 27

**Page 19: Exploding Star**

5, 10, 15, 20, 25, 30, 35, 40

**Page 20: Patchwork Diamonds**

10 squares

**Page 21: Star Puzzle**

2 rows

**Page 22: Missing Blocks**

Answers will vary.

**Page 23: Playing With Blocks**

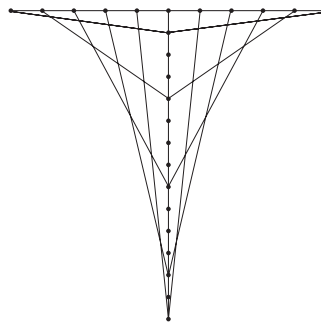
18 birds

**Page 24: Fireworks**

22 pieces; yes, one piece was left over.

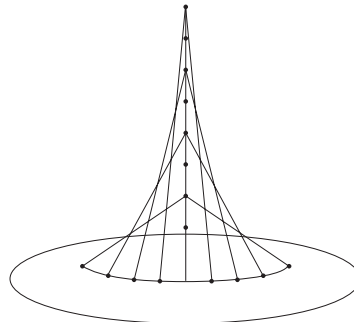
**Page 25: Ice Cream Cone**

a, b, d, e



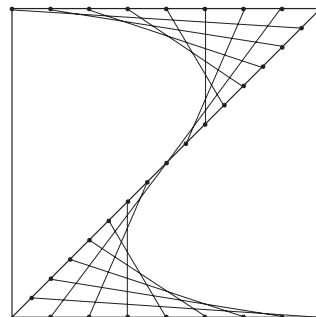
**Page 26: Bewitching Math**

a. 3; b. 9; c. 7; d. 85; e. 4; f. 26



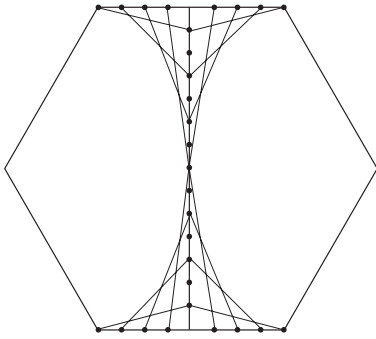
**Page 27: Wave Action**

Answers will vary.



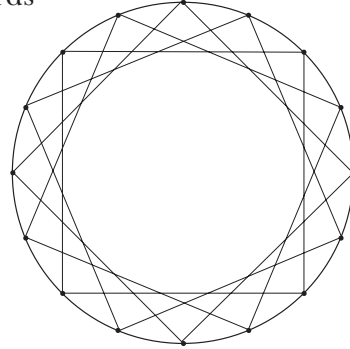
**Page 28: Stretching Taffy**

7



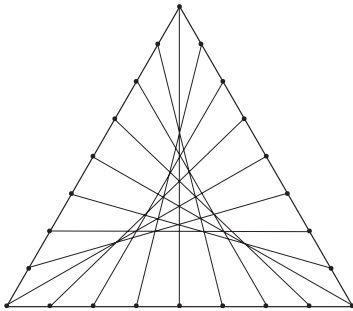
**Page 32: Spider's Web**

27 yards



**Page 29: Spectacular Triangle**

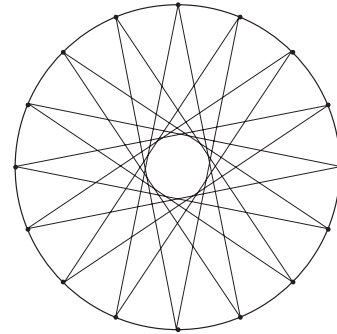
a. 3; b. 3; c. 3; d. 8; e. 6; f. 18



**Page 33: Sunburst**

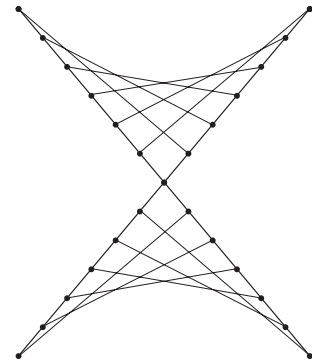
a. 35, 30, 25, 20, 15, 10, 5

b. 21, 18, 15, 12, 9, 6, 3



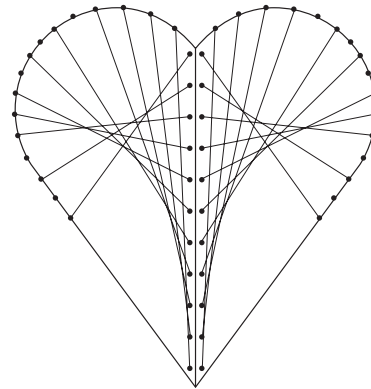
**Page 30: Hourglass**

Missing numbers: 12, 16, 24, 32, 40, 48



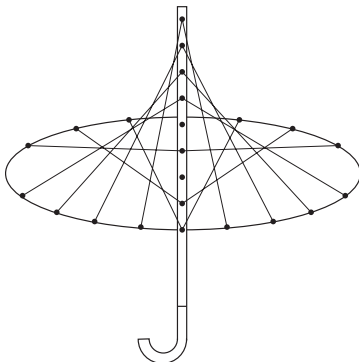
**Page 34: Lacy Heart**

9



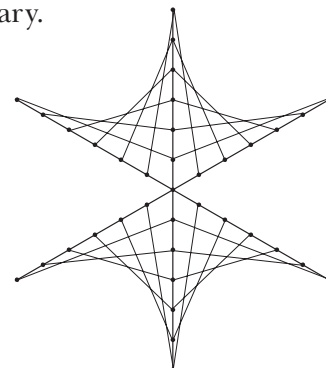
**Page 31: Rainy Day**

a. 11; b. 10; c. 0; d. 3; e. 4; f. 12



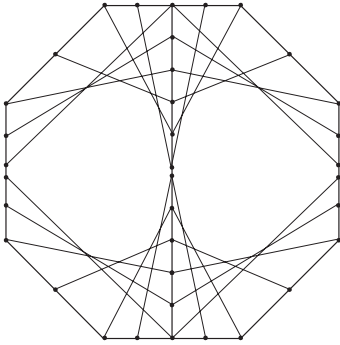
**Page 35: Power Lines**

Missing numbers: 36, 60, 84, 96, 120, 144;  
answers will vary.



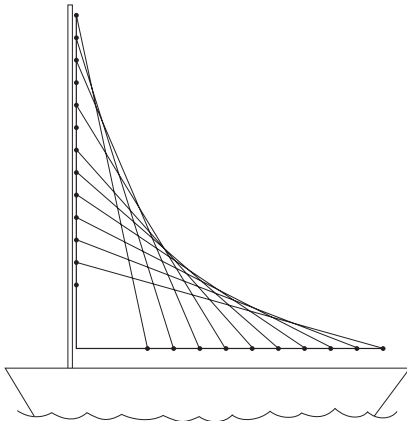
**Page 36: Octagon Web**

108



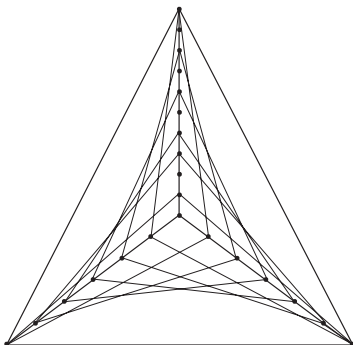
**Page 37: Wind Seeker**

3, 6, 24, 27, 30, 9, 12, 15



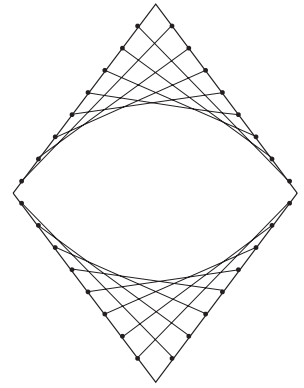
**Page 38: String Tower**

a. 1; b. 3; c. 6; d. 1; e. 9; f. 18



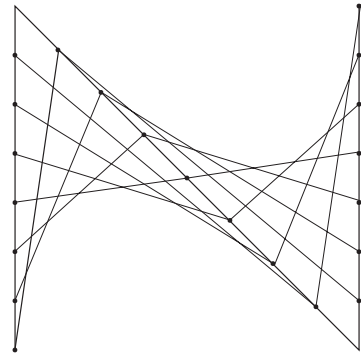
**Page 39: Football**

10



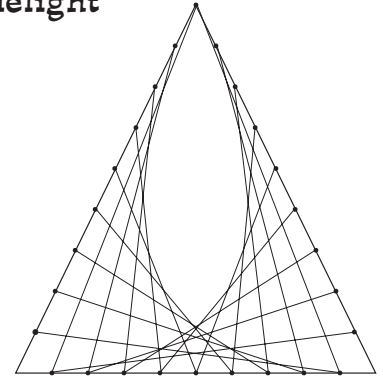
**Page 40: Over and Under**

a. 4; b. 4; c. 8; d. 10; e. 11; f. 7; g. 12; h. 11;  
i. 10; j. 12



**Page 41: Candlelight**

Answers will vary.



**Page 42: Sparkling Diamond**

10 with 2 cards left over

