Divide and Conquer

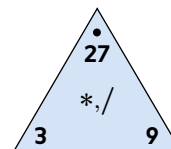| **Materials** | ☐ 1 set of *Divide and Conquer* Fact Triangles (*Math Masters*, pp. G38–G40) |
	☐ 1 calculator
Players	3
Skill	Practicing extended division facts
Object of the Game	To divide extended division facts correctly without a calculator faster than a player using one.

Directions

1 One player is the "Caller," one is the "Calculator," and one is the "Brain."

2 The Caller shuffles the Fact Triangles and places them fact-side down on the table.

3 The Caller draws a Fact Triangle from the pile and extends the fact on the triangle by attaching one of the following:

- 1 zero to the dividend;
- 1 zero to the dividend and 1 zero to the divisor; or
- 2 zeros to the dividend.

4 The Caller reads the problem aloud and asks for the quotient.

5 The Calculator uses a calculator to solve the problem. The Brain solves it without a calculator. The Caller decides who got the answer first.

6 The Caller continues to draw one Fact Triangle at a time and ask for the quotient.

7 Players trade roles every 5 turns.

Example

The Caller draws the Fact Triangle with 3, 9, and 27. The Caller calls out an extended fact such as 270 / 9 or 270 / 30.

The Brain and Calculator each solve the problem.

The Caller decides who got the answer first.

Variations

- The Caller attaches 3 or more zeros to the dividend, or attaches 2 zeros to the dividend and 1 zero to the divisor.

- For a greater challenge, include Fact Triangles from *Math Masters*, page TA16.
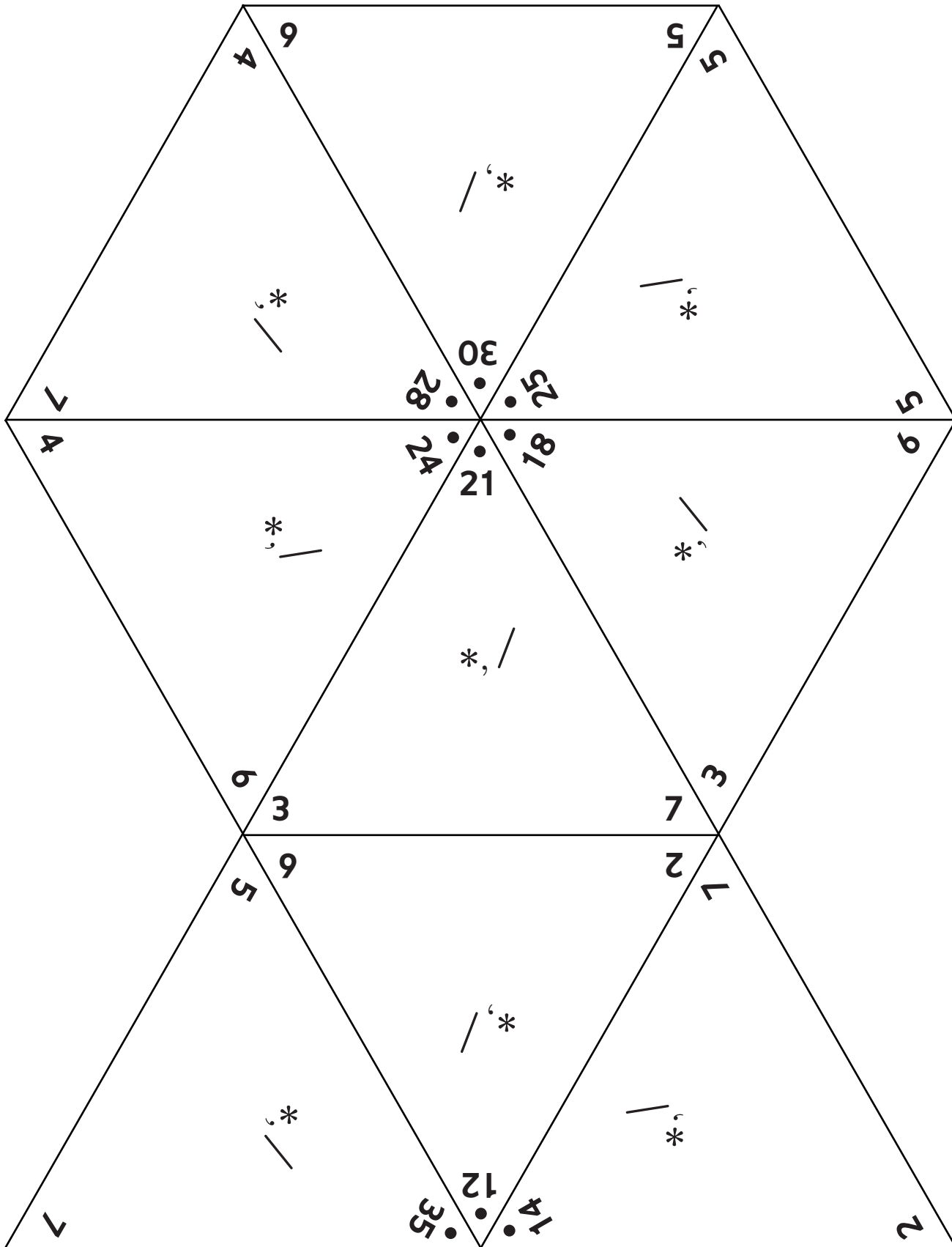
Divide and Conquer
Fact Triangles

NAME   DATE   TIME

9
4

5
5

/ ' *

* , /

/ ' ,
*

30
28 • • 25
• •
24 • • 18
21

7
4

5
6

* , /
/

* , /

* , /

6
3

7
3

5
9

2
7

/ ' *

7

* , /
/

/ ' ,
*

35 • • 14
12

2

Divide and Conquer
Fact Triangles (continued)

5 4

3 4

*, /

*, /

/, *

20 15 16

9 12 10

5 3

4 5

*, /

/, *

*, /

*, /

3 3

4 2

2 2

9

8 4

4

2

/, *

*, /

*, /

/, *

2 8   5 6

×, /   ×, /

×, /   40   ×, /

6   18 • 27   3
4   32 • 24   8
                36

*, /   *, /

*, /

8   3
9   4

5 8   2 6

×, /   ×, /

16
45 • • 36

*, /   ×, /

6   45 • 36   6