

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

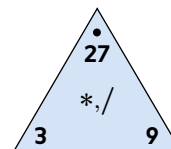
- 1 One player is the “Caller,” one is the “Calculator,” and one is the “Brain.”
- 2 The Caller shuffles the Fact Triangles and places them fact-side down on the table.
- 3 The Caller draws a Fact Triangle from the pile and extends the fact on the triangle by attaching one of the following:
 - 1 zero 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 $270 \div 9$ or $270 \div 30$.

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.

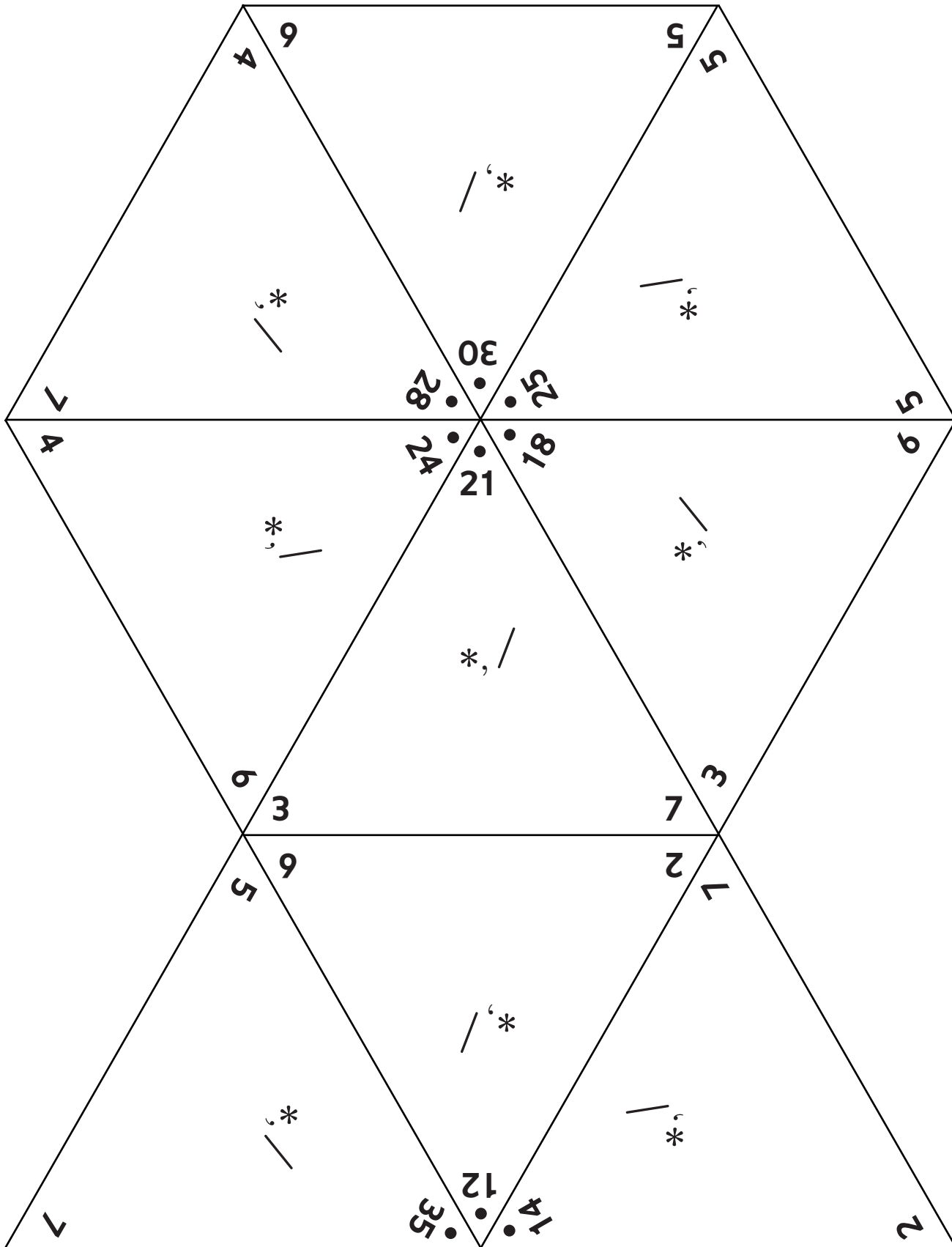
Divide and Conquer Fact Triangles



NAME _____

DATE _____

TIME _____



Divide and Conquer

Fact Triangles (continued)



NAME _____

DATE _____

TIME _____

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Divide and Conquer

Fact Triangles (continued)



NAME _____ DATE _____ TIME _____

The diagram consists of a large hexagon divided into six triangles by three lines meeting at the center. Each triangle contains numbers and symbols for multiplication and division. The central area contains a multiplication table.

Top-Left Triangle: Vertices 2, 8, 6. Symbols: \times , \div .

Top-Right Triangle: Vertices 5, 9, 3. Symbols: \times , \div .

Middle-Left Triangle: Vertices 9, 4, 8. Symbols: \times , \div .

Middle-Right Triangle: Vertices 8, 3, 4. Symbols: \times , \div .

Bottom-Left Triangle: Vertices 8, 5, 6. Symbols: \times , \div .

Bottom-Right Triangle: Vertices 3, 6, 9. Symbols: \times , \div .

Central Multiplication Table:

40	18	32
36	24	27

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