

- Game Board
- 100 Cards
- 4 Trays



Ages 8+ / Grades 3+

Math × Facts = Fun!

FACTS
multiplication & division game

Ages | Grades
8+ | 3+

LER 3039



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Object of the Game

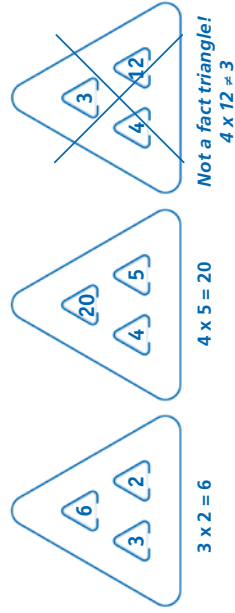
Be the first player to play all your cards, and call out “tri-FACTa”!

Setup:

1. Put the game board within reach of all players. Arrange the cards face down around the board.
2. Each player takes a tray, chooses six cards, and places the cards in the tray.

Hint: Putting the cards in numerical order on your tray might make game play easier.

3. Make sure all players understand the relationships between the numbers in a fact triangle, in which the two bottom numbers multiply to equal the number at the top. Here are some examples:



Playing tri-FACTa

To Start:

The player who can make a true fact triangle with three cards goes first. If more than one player can make a fact triangle, the player with the largest product begins the game. As play continues to the right, place new cards on top of existing cards on the board. Don't forget to turn the board to face the next player!

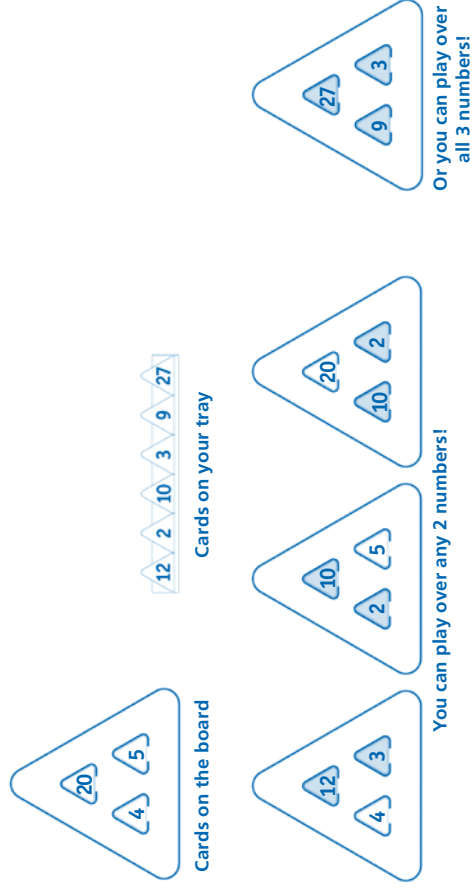
To Play:

1. To take a turn, you must play two or three of your cards to create a true fact triangle (see Figure 1). Remember to think about multiplication and division—the numbers in the triangle show both relationships!
2. If you cannot take a turn, choose one card from the pile and add it to your tray. If you can take a turn now, go ahead! If not, keep the card and play continues.
3. If you make an incorrect fact triangle, take your cards back. It is now the next player's turn.
4. **WILD CARDS:** If you have a wild card, you can play it as any number up to 100. Say the value of the card out loud when you play it. The value of that card doesn't change.
5. To win, be the first player to play all your cards, and call out “tri-FACTa!”

Note: If all cards are gone from the center pile and a winner has not been declared, the player who has the fewest cards in his or her tray wins.

Here are some examples of turns you can take:

Figure 1



Note: The largest number is always placed at the top of the fact triangle. This space is outlined in red on the game board.

Just a Beginner?

Once players choose six cards to start the game, flip the rest of the cards face up to play. Leave the wild cards out—playing this way is wild enough!

Need a Challenge?

Try playing only the top card and one of the bottom cards in a turn. This reinforces players' understanding of fact triangles.

Did You Know?

You are actually learning about fact families while you play this game!

A fact family is the group of four math facts produced by the relationships between the three numbers in a fact triangle. Here's an example:

FACT TRIANGLE: 
FACT FAMILY: $3 \times 4 = 12$
 $4 \times 3 = 12$
 $12 \div 3 = 4$
 $12 \div 4 = 3$

