

Multiplication Tetris

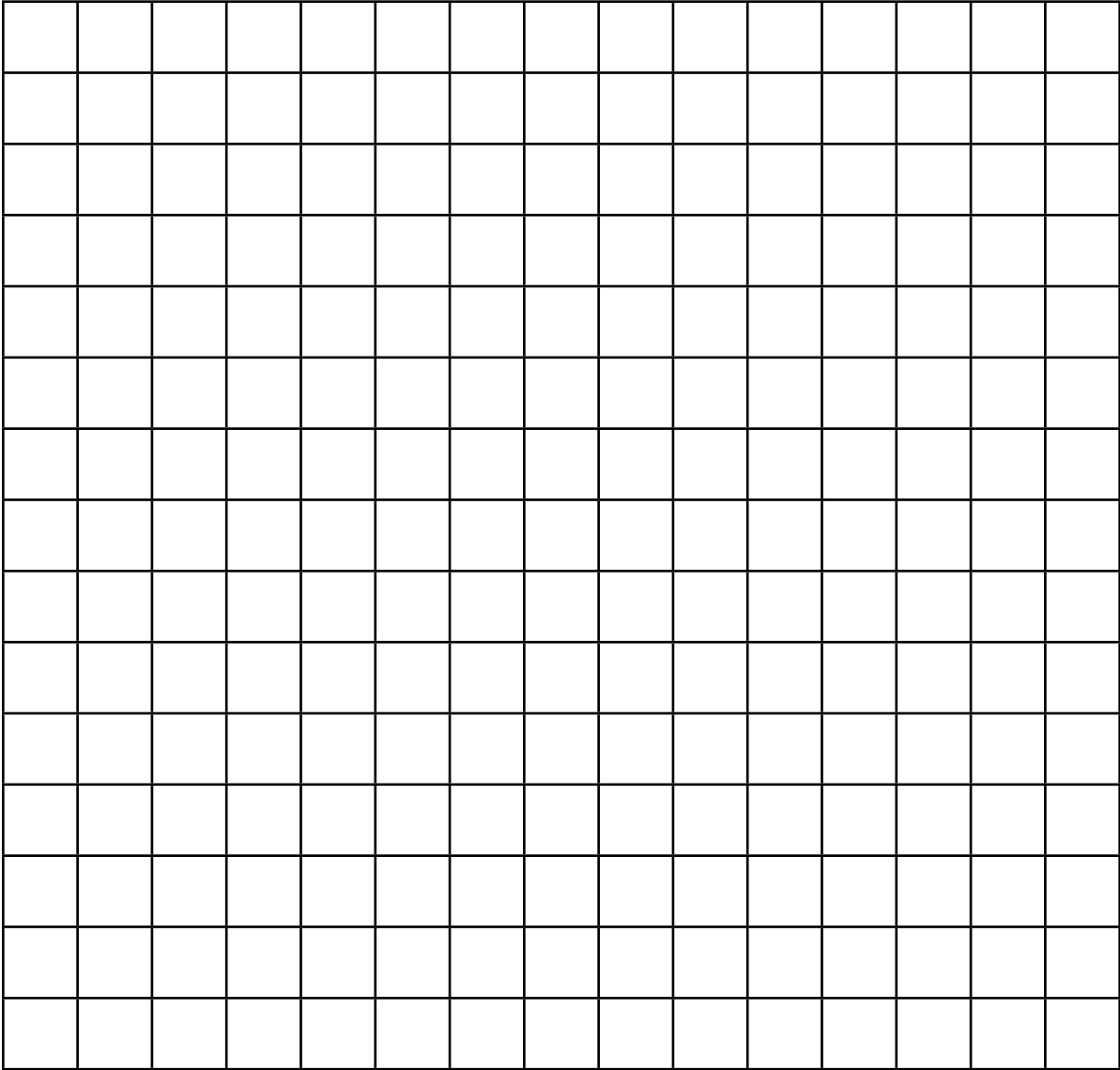
Directions:

Have students play in groups of 2 or 3. Each group needs two dice and each player needs a blank grid that is 15 units by 15 units.

On each player's turn she rolls two dice. The numbers of the dice become the height and width of a rectangle that she will draw onto her grid paper. If a player rolls a 2 and a 5, she decides if the rectangle she draws on the grid will be 2 x 5 or 5 x 2. After the rectangle is drawn, the player writes the factors she used inside the rectangle on the grid.

Each player stops playing as soon as she can no longer draw a rectangle that matches the dice rolled. Rectangles must not overlap and cannot be broken up into smaller rectangles.

The winner of the game is the person who ends up with the fewest unused unit spaces.



Division BUMP

2 Player Division Game

Materials:

- 1 Division BUMP Game Board (choose from $\div 2$, $\div 3$, $\div 4$, $\div 5$, $\div 6$, $\div 7$, $\div 8$, $\div 9$, $\div 10$)
- 10 chips or clear counters of one color for each player (Example: 10 red & 10 yellow)
- Die/Dice – Choose ONE option:
 - 1 ten-sided die (use for facts 1-10). Use ONLY the bold circles on the game board for play.
- OR**
- 2 six-sided dice (use for facts 1-12). Use all circles on the game board for play.

Rules:

Objective: The first player to get rid of all 10 counters wins!

Basic Rules:

- Roll dice. Place a clear counter on the expression with the matching quotient.
- If the number is already covered by another player's counter, BUMP it!
- If the number is already covered by YOUR counter, put an additional counter on top to "crown" it and that number becomes closed and un-bump-able!
- If a player rolls doubles he gets to roll again.
- If all possible circles (expressions) are closed, the player loses a turn.

Variations:

- Level 1:** Put your counter on the circle containing the expression that matches the quotient on your dice.
- Level 2:** Put your counter on the circle containing the expression that matches the quotient, or choose two other expressions that total that quotient and cover each with a counter.
- Level 3: BUMP Unlimited.** Put your counter on the circle containing expression that matches the quotient, or determine a combinations of unlimited numbers that total the quotient and cover each with a counter.

BUMP $\div 5$

$60 \div 5$

$55 \div 5$

$5 \div 5$

$10 \div 5$

$20 \div 5$

$15 \div 5$

$25 \div 5$

$35 \div 5$

$50 \div 5$

$40 \div 5$

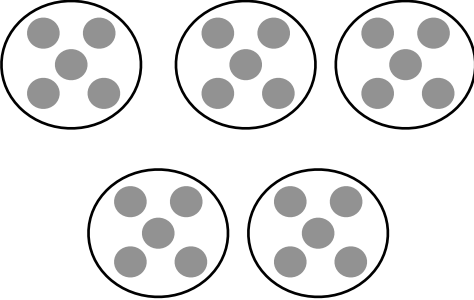
$45 \div 5$

$30 \div 5$

Roll Doubles and
get another
turn!

Relating Multiplication & Division

Directions: Complete each row. Explain your reasoning.

Situation	Drawing or Diagram	Multiplication Equation	Division Equation
Jeffrey has 18 stickers in an album. Each page in the album holds 3 stickers.			$18 \div 3 = \underline{\quad}$
Five boxes contain a total of 25 granola bars. Each box holds the same number of granola bars.			
Susie baked 6 cookies. She put the cookies into 2 rows. Each row has the same number of cookies.		$2 \times ? = 6$	
Mila has 20 colored pencils. Each box holds 4 colored pencils.			$20 \div 4 = \underline{\quad}$

