

Reproducible Pattern

Multiplication Strategies

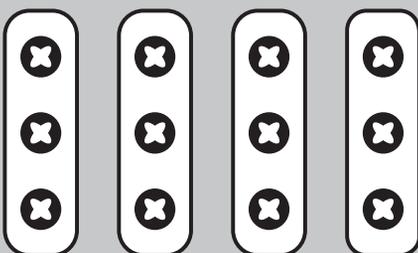
Repeated Addition

$$3 + 3 + 3 + 3 = 12$$

$$4 + 4 + 4 = 12$$

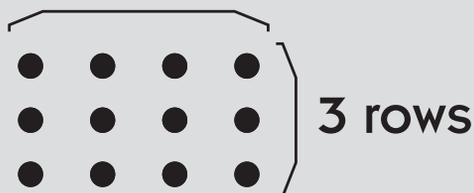
Equal Groups

4 groups of 3

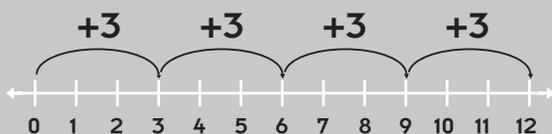


Array

4 columns



Number Line



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The Nuts and Bolts of Multiplication MINI BULLETIN BOARD RESOURCE GUIDE



Putting It Together

- Laminate the Nuts and Bolts of Multiplication Mini Bulletin Board for durability.
- The Nuts and Bolts of Multiplication Mini Bulletin Board can be displayed on a wall or bulletin board.
- Use the reproducible pattern [page 4] for a student reference.
- Use pieces of the Nuts and Bolts of Multiplication Mini Bulletin Board to create fun curriculum activities.

Title Ideas

Getting in
Gear with
Multiplication

Wired for
Understanding

Wound Up about
Multiplying

Processing the
Properties

Multiplication
Equation Station

Using the Nuts and Bolts of Multiplication Mini Bulletin Board

Display the Nuts and Bolts of Multiplication Mini Bulletin Board header and mini charts on a bulletin board for students to easily reference. Place the strategies around the Multiplication Strategies mini-header to create a reference chart. Place the properties around or below the Properties of Multiplication mini-header to create a multiplication properties display.

Activities

Mat Magic Make a multiplication mat template. Draw a circle in the middle of a sheet of paper. Draw lines to divide the page into four equal boxes around the circle. Label the boxes *Repeated Addition*, *Equal Groups*, *Array*, and *Number Line*. Make copies on card stock and laminate for durability. Give students a mat, play dough, and a dry-erase marker. Students should record a multiplication fact in the center circle. Then, they should complete each section of the mat by drawing, writing, or creating a play dough model. Distribute copies of the Multiplication Strategies bookmark pattern [page 4] for students to use as a reference as needed. Repeat as time allows.

Robot Factory Distribute sheets of gray paper and craft supplies for students to create a robot. Give each student a multiplication fact. Students should use their math fact to decorate their robot. For example, 1×3 could become 1 row of 3 wheels, or 3×2 could become 3 rows of 2 lights. Encourage students to use their facts as much as possible to add details to their robots. Students should record their facts on the back of the robot, along with the repeated addition sentences and fact family facts. Display the completed robots around the Nuts and Bolts of Multiplication Mini Bulletin Board.

Bricks and Blocks Place plastic interlocking blocks and plastic base plates in a center. Record multiplication facts on index cards. Do not record the answers. Students should choose a fact card and use the interlocking blocks to create matching arrays. Students should then record the product, the two multiplication problems, and the two repeated addition problems.

Dip a Dot Distribute red, orange, yellow, green, blue, and purple tempera paint and cotton swabs to students. Have students record a math fact on a sheet of white paper and draw a cloud

shape around it. Above the cloud, students should create a matching rainbow array by dipping a cotton swab in the paint and creating dots. Students should use a different color for each column in the array. Encourage students to use colors in the correct order to create true rainbows. Display students' completed rainbows with the title "Array-nbows."

Computer Punch Cards Make copies of the robot pattern [page 3] and distribute them to students. Explain that the very first computers used cards with holes punched in them to "read" and carry out commands. Give each student a multiplication fact and have them record it on their robot's head. Provide students with small squares of colored paper and hole punches. Challenge students to use hole punches to create the array matching their robot's "command" (multiplication fact). Glue the command cards on the robots. Or, place preprogrammed robots and pre-punched cards in a center to create a matching game.

The Path to Math Facts For a simple multiplication fact practice game, shuffle a deck of cards. (Remove face cards and, if desired, remove numbers to limit the factors students will practice. Aces equal 1.) Place the cards faceup, end-to-end, to create a path of any shape or size. Players place their markers on the starting card. The first player rolls a die and moves that many spaces. She multiplies the number of the card she lands on by the number she rolled. If she is correct, she stays on the space. If not, she returns to her previous space. The first player to reach the final card and give a correct answer wins.

