



LESSON 19

Match Expressions

What You Need

- Game Board
- counters, 6 of one color per team
- number cube (1–6)

What You Do

- 1 Play in two teams. Determine which team goes first.
- 2 Roll a number cube.
- 3 Read the expression next to that number in the table.
- 4 Find an expression on the **Game Board** that is equivalent to the expression.
- 5 The other team checks your team's work.
- 6 If your team is correct, cover the expression on the **Game Board** with a counter. If your team is incorrect, the other team covers the expression on the **Game Board** with a counter.
- 7 Some expressions have more than one correct match. If all of the matches for your expression are already covered, roll again.
- 8 The first team with 5 counters on the **Game Board** wins.

1	$7(x + y)$
2	$6(2x - 5y)$
3	$60 - 12x$
4	$8x + 17y$
5	$3(4x + y)$
6	$4(3x - 2x)$



Check Understanding

Rewrite the expression $15 + 12h$ as a product of two factors.



Go Further

Choose an expression from the **Game Board**. Write two expressions that are equivalent to your expression and different from any other expressions in this activity. Have a partner check your work.



Match Expressions

GAME BOARD

$$12x + 3y$$

$$12(5 - x)$$

$$10x + 4y + 2x - y$$

$$4(2x + 4y) + y$$

$$7x + 7y$$

$$3(20 - 4x)$$

$$12x - 30y$$

$$4x$$

$$5x + 6y + 2x + y$$



LESSON 21

Equation Writing

What You Need

- Game Board
- number cube (1–6)
- counters, 9 of one color per team

What You Do

- 1 Play in two teams. Determine which team goes first.
- 2 Take turns. Select a square on the **Game Board**.
- 3 Roll a number cube. Rewrite the equation in the selected square using the number your team rolled as the value for q .
- 4 Solve the equation for x . The other team checks your team's work.
- 5 If your team is correct, place a counter on the chosen square of the **Game Board**. If your team is incorrect, no counter is placed. Play passes to the other team.
- 6 The first team to get three squares in a row horizontally, vertically, or diagonally wins. If no team gets three in a row, the team with the most counters on the board wins.



Check Understanding

What is the solution of the equation $2x = 6$? Show your work.



Go Further

Play the game again. This time, roll the number cube twice. Use the sum of the two numbers rolled as the value for q .



Equation Writing

GAME BOARD

$$\frac{1}{4}x = q$$

$$x - 10 = q$$

$$5x = q$$

$$x - 9 = q$$

$$6x = q$$

$$x + 1 = q$$

$$x - 7.5 = q$$

$$\frac{1}{3}x = q$$

$$x - 11 = q$$