Names:

Match the Expression

What You Need

- Game Board
- counters, 8 of one color per team

What You Do

1. Work in two teams. Each team takes turns. Choose a letter.
2. Read the expression next to that letter in the table.
3. Find an expression on the **Game Board** that is equivalent to the expression your team chose.
4. The other team checks your team's work and explains why the expressions are or are not equivalent.
5. If your team is correct, cover the expression with a counter. If your team is incorrect, the other team covers the expression with a counter.
6. Each team takes four turns. The team with the greater number of counters on the board wins.

A	$-0.5(4a - 1.5) + 0.5a$
B	$5a + 19 + 3a - 12a - 16$
C	$2(a - 3)$
D	$-2(a + 3)$
E	$-8a + 1.5 + 4a - \frac{1}{2} + 2a$
F	$5(1.2a + 4) + 3(-3a - 6)$
G	$\frac{1}{4}(a + 8) - \frac{3}{4}a$
H	$6\left(\frac{1}{3}a - \frac{1}{6}\right)$
I	$2(3a + 1)$

Check Understanding

Are the expressions $-14(a + 2)$ and $-1.4(5a - 10) - \frac{1}{2}(14a - 28)$ equivalent? Show your work.

Go Further

Choose any expression in the table. Rewrite the expression in a format that is different from its matching expression on the **Game Board**. Trade expressions with a partner and identify the two expressions—one in the table and one on the **Game Board**—that match the expression your partner wrote.

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Names:

Match the Expression

GAME BOARD

$-12\left(\frac{1}{4}a + \frac{1}{3} - 0.75a - \frac{1}{2}\right)$	$2 - 3a$	$-1.5a + 0.75$
$-2a - 6$	$-2a + 1$	$\frac{1}{4}(-4a - 16 + 12a - 8)$
$-\frac{1}{2}(a - 4)$	$2a - 1$	$3 - 4a$

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Names:

Write and Solve Algebraic Equations

What You Need

- Recording Sheet, 1 per team
- Question Cards

What You Do

1. Shuffle the **Question Cards** and put them in a pile facedown.
2. Work in two teams. Each team draws a **Question Card**. On your team's **Recording Sheet**, write the number of the card and then write an equation to model the problem.
3. Trade **Recording Sheets** and **Question Cards** with the other team. The other team determines if the equation modeling the problem is correct. That team then solves the equation, showing their work.
4. Trade **Recording Sheets** back. Check to see if the other team's solution is correct.
5. Each team draws another card. Repeat the process until all of the **Question Cards** have solutions.

Check Understanding

Christina has a backpack that weighs $\frac{3}{4}$ pound. She puts three books in the backpack. Each book has the same weight. The total weight of the backpack with the books is $7\frac{7}{8}$ pounds. Write and solve an equation to find the weight, b, of each book.

Go Further

Choose one card that the opposite team solved. Show a different solution method for the same equation.

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Names:

Write and Solve Algebraic Equations

Record your equation and solution to each **Question Card** in the table below.

RECORDING SHEET

Question Card Number	Equation	Solution

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1

Trace is buying notebooks. Each notebook is $2 off the original price. He buys 8 notebooks for $28. What is the original price of a notebook?

2

Quentin is collecting rocks. He has a case that will hold 65 rocks. He starts with 21 rocks now and collects 4 new rocks each week. How many weeks will it take Quentin to fill his case?

3

A rectangle has a width that is 6 inches less than its length. The perimeter of the rectangle is 72 inches. What is the length?

4

Carson decides to buy a new phone. He pays $255 up front, and then will pay a set amount each month for 15 months. The total cost of the phone is $600. How much will Carson pay each month?

5

Kate deposits some money into a new bank account. Her parents add $45. Her grandparents give her 2.5 times the amount she and her parents added. Her grandparents give Kate $250. How much did Kate deposit to start her account?

6

Toni buys 6 shirt-and-short outfits. The shirts each have the same price. The shorts each have the same price. A shirt costs $2.99 more than a pair of shorts. Her total cost without tax is $125.58. What is the price for each pair of shorts?

7

Four times the sum of two consecutive even integers is 40. What is the greater of the two even integers?

8

There are 68 students from three classes going on a field trip. Together, Ms. Cho's class and Mrs. Wye's classes have 6 more students going than Mr. Ott's class. How many students from Mr. Ott's class are going on the field trip?

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