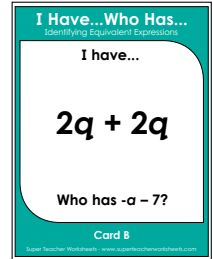
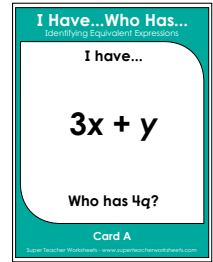


I Have...Who Has...

Identifying Equivalent Expressions

How to play the game:

- Distribute the cards randomly to your students. Some students may get more than one card.
- Ask the student with the first card to begin by reading their card aloud. (example: I have $3x + y$. Who has the equivalent of $4q$?)
- The student who has the card with the correct answer to the previous student's "Who Has..." question reads their card aloud. (example: I have $2q + 2q$. Who has the equivalent of $-a - 7$? And so on.)
- Remind students to accurately read aloud where parentheses begin and end.
- Students must listen for their turn and try not to break the chain.
- When the chain reaches the student with last card, the game is over.



Suggestions:



Preview

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Ans:

B: I have $2q + 2q$.
Who has $-a - 7$?

C: I have $4a - 7 - 5a$.
Who has $8j$?

D: I have $5j + 3j$.
Who has $9f - 3$?

E: I have $3(3f - 1)$.
Who has $2(3y + 2)$?

F: I have $6y + 4$.
Who has $10 - 4k$?

G: I have $2(5 - 2k)$.
Who has $y - x - x$?

H: I have $y - 2x$.
Who has $p + 3 - 7p$?

I: I have $-6p + 3$.
Who has $3a + 5a - 12$?

J: I have $8a - 12$.
Who has $2(3j - 1)$?

L: I have $5 + 10w$.
Who has $7m$?

M: I have $m(8 - 1)$.
Who has $2(a - 2h)$?

N: I have $2q - 4h$.
Who has $8 - 4a$?

O: I have $4(2 - a)$.
Who has $3(p - 1) - y$?

P: I have $3p - 3 - y$.
Who has $6(x + x)$?

Q: I have $12x$.
Who has $-4q + 6 - 3q$?

R: I have $-7q + 6$.
Who has $5(5a - 1)$?

S: I have $25a - 5$.
Who has $18p$?

T: I have $6(p + 2p)$.
Who has $15x + 6$?

V: I have $3f + 2e$.
Who has $w(2 - 7)$?

W: I have $-5w$.
Who has $8j + 4$?

X: I have $2(4j + 2)$.
Who has $5m$?

Y: I have $m(2 + 3)$.
Who has $-2k + 10k$?

Z: I have $8k$.
Who has $x - 10y$?

AA: I have $x - y(2 + 8)$.
Who has $-1 - k$?

BB: I have $9 - k - 10$.
Who has $-5a$?

CC: I have $a + a - 7a$.
Who has $8(2w + 5)$?

DD: I have $16w + 40$.
Who has $2x + x + y$?

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$3x + y$$

Who has $4q$?

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$2q + 2q$$

Who has $-a - 7$?



Preview

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I have...

$$4a - 7 - 5a$$

Who has $8j$?

I have...

$$5j + 3j$$

Who has $9f - 3$?

Card C

Card D

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$3(3f - 1)$$

Who has $2(3y + 2)$?

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$6y + 4$$

Who has $10 - 4k$?



Preview

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I have...

$$2(5 - 2k)$$

Who has $y - x - x$?

I have...

$$y - 2x$$

Who has $p + 3 - 7p$?

Card G

Card H

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$-6p + 3$$

Who has $3a + 5a - 12$?

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$8a - 12$$

Who has $2(3j - 1)$?



Preview

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I have...

$$6j - 2$$

Who has $9 + 11w - 4 - w$?

I have...

$$5 + 10w$$

Who has $7m$?

Card K

Card L

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$m(8 - 1)$$

Who has $2(q - 2h)$?

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$2q - 4h$$

Who has $8 - 4a$?



Preview

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I have...

$$4(2 - a)$$

Who has $3(p - 1) - y$?

I have...

$$3p - 3 - y$$

Who has $6(x + x)$?

Card O

Card P

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$12x$$

Who has $-4q + 6 - 3q$?

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$-7q + 6$$

Who has $5(5a - 1)$?



Preview

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I have...

$$25a - 5$$

Who has $18p$?

Card S

I have...

$$6(p + 2p)$$

Who has $15x + 6$?

Card T

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$3(5x + 2)$$

Who has $f + 2(e + f)$?

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$3f + 2e$$

Who has $w(2 - 7)$?



Preview

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I have...

$$-5w$$

Who has $8j + 4$?

I have...

$$2(4j + 2)$$

Who has $5m$?

Card W

Card X

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$m(2 + 3)$$

Who has $-2k + 10k$?

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$8k$$

Who has $x - 10y$?



Preview

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I have...

$$x - y(2 + 8)$$

Who has $-1 - k$?

I have...

$$9 - k - 10$$

Who has $-5a$?

Card AA

Card BB

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$a + a - 7a$$

Who has $8(2w + 5)$?

I Have...Who Has...

Identifying Equivalent Expressions

I have...

$$16w + 40$$

Who has $2x + x + y$?



Preview

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Fold this page in half to store the cards in when not in use.

Answer Chain:

A: I have $3x + y$.
Who has $4q$?

B: I have $2q + 2q$.
Who has $-a - 7$?

C: I have $4a - 7 - 5a$.
Who has $8j$?

D: I have $5j + 3j$.
Who has $9f - 3$?

E: I have $3(3f - 1)$.
Who has $2(3y + 2)$?

F: I have $6y + 4$.
Who has $10 - 4k$?

G: I have $2(5 - 2k)$.
Who has $y - x - x$?

H: I have $y - 2x$.
Who has $p + 3 - 7p$?

I: I have $-6p + 3$.
Who has $3a + 5a - 12$?

K: I have $6j - 2$.
Who has $9 + 11w - 4 - w$?

L: I have $5 + 10w$.
Who has $7m$?

M: I have $m(8 - 1)$.
Who has $2(q - 2h)$?

N: I have $2q - 4h$.
Who has $8 - 4a$?

O: I have $4(2 - a)$.
Who has $3(p - 1) - y$?

P: I have $3p - 3 - y$.
Who has $6(x + x)$?

Q: I have $12x$.
Who has $-4q + 6 - 3q$?

R: I have $-7q + 6$.
Who has $5(5a - 1)$?

S: I have $25a - 5$.
Who has $18p$?

U: I have $3(5x + 2)$.
Who has $f + 2(e + f)$?

V: I have $3f + 2e$.
Who has $w(2 - 7)$?

W: I have $-5w$.
Who has $8j + 4$?

X: I have $2(4j + 2)$.
Who has $5m$?

Y: I have $m(2 + 3)$.
Who has $-2k + 10k$?

Z: I have $8k$.
Who has $x - 10y$?

AA: I have $x - y(2 + 8)$.
Who has $-1 - k$?

BB: I have $9 - k - 10$.
Who has $-5a$?

CC: I have $a + a - 7a$.
Who has $8(2w + 5)$?



Preview
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Fold here

I have - Who has
Identifying
Equivalent
Expressions