

ONE SOLUTION	NO SOLUTION	ALL REAL NUMBERS
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A

$$9x - 4 = -3x + 5 + 12x$$

B

$$5x + 2 = 2x + 14$$

C

$$10x + 12 = 2(5x + 6)$$

D

$$5 - x = -(x - 5)$$

E

$$\frac{3}{5}x + 2 = \frac{2}{3}x - 4$$

F

$$5n + 5 = 20(4 + 0.25n)$$

G

$$2(5x - 1) = 3(x + 11)$$

H

$$-\frac{1}{2}(24 + 6x) = -3(x - 4)$$

I

$$-4 + 6x = 3(2x - 1) + 1$$

J

$$\frac{1}{2}x + 16 = 2(\frac{1}{4}x + 8)$$

K

$$4 - 2n = 5 - n + 1$$

L

$$-0.3(10x + 2) = -0.6 - 3x$$

M $-2x + 5 + 8x = -1 + 6 + 6x$	N $5x - 3 = 3x + 1$
O $9x - 12 = 7x - 2x + 12$	P $-9x + 3 = -3(3x - 1)$
Q $4x + 10 + x = 2.5(2x - 4)$	R $1.5(2x - 4) = 1.5x + 3$
S $-\frac{1}{6}(2x + 12) = -\frac{1}{3}x + 12$	T $-5(\frac{1}{6}x - 8) = 40 - x + \frac{1}{6}x$
U $-7x + 11 = -19x + 11 + 12x$	V $7.4x + 3 - 9 = 6 + 7.4x$
W $\frac{1}{6}x - 9 = \frac{1}{3}(3x - 24)$	X $8x - 5 = 2(3x + 1) + 2x$

EQUATIONS CARD SORT

INSTRUCTIONS: Record the letter of each card under the appropriate column.

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B E G K N O R W	A F H I Q S V X	C D J L M P T U

Answer Key

A $9x - 4 = -3x + 5 + 12x$ No Solution	B $5x + 2 = 2x + 14$ One Solution
C $10x + 12 = 2(5x + 6)$ All Real Numbers	D $5 - x = -(x - 5)$ All Real Numbers
E $\frac{3}{5}x + 2 = \frac{2}{3}x - 4$ One Solution	F $5n + 5 = 20(4 + 0.25n)$ No Solution
G $2(5x - 1) = 3(x + 11)$ One Solution	H $-\frac{1}{2}(24 + 6x) = -3(x - 4)$ No Solution
I $-4 + 6x = 3(2x - 1) + 1$ No Solution	J $\frac{1}{2}x + 16 = 2(\frac{1}{4}x + 8)$ All Real Numbers
K $4 - 2n = 5 - n + 1$ One Solution	L $-0.3(10x + 2) = -0.6 - 3x$ All Real Numbers

Answer Key

M $-2x + 5 + 8x = -1 + 6 + 6x$ All Real Numbers	N $5x - 3 = 3x + 1$ One Solution
O $9x - 12 = 7x - 2x + 12$ One Solution	P $-9x + 3 = -3(3x - 1)$ All Real Numbers
Q $4x + 10 + x = 2.5(2x - 4)$ No Solution	R $1.5(2x - 4) = 1.5x + 3$ One Solution
S $-\frac{1}{6}(2x + 12) = -\frac{1}{3}x + 12$ No Solution	T $-5(\frac{1}{6}x - 8) = 40 - x + \frac{1}{6}x$ All Real Numbers
U $-7x + 11 = -19x + 11 + 12x$ All Real Numbers	V $7.4x + 3 - 9 = 6 + 7.4x$ No Solution
W $\frac{1}{6}x - 9 = \frac{1}{3}(3x - 24)$ One Solution	X $8x - 5 = 2(3x + 1) + 2x$ No Solution