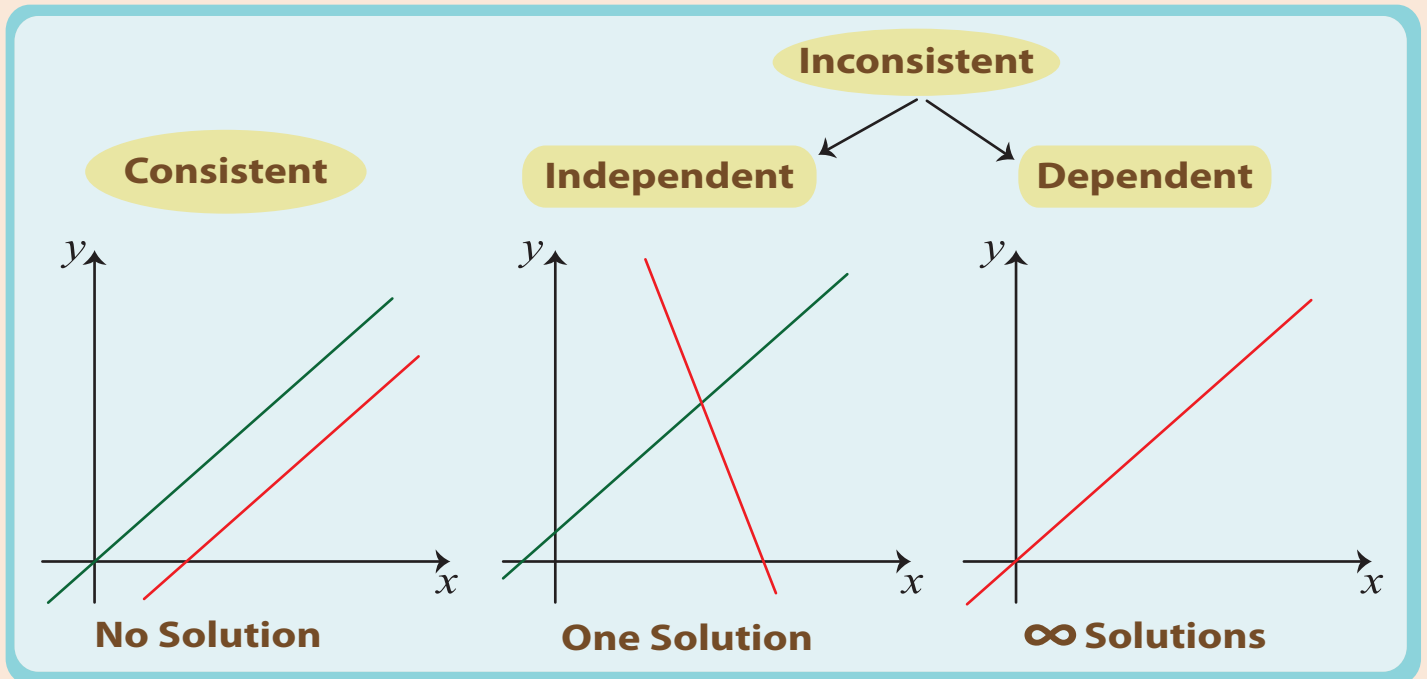


Equations

8th
Grade



If you multiply me by 6 and
subtract 7 from me, you get 41.
What number am I?

$$6x - 7 = 41$$

Workbook 1

Two-Step Equations

Solve each equation.

1) $6.6x + 2 = 8.6$

2) $10 = -\frac{3}{5}\left(w - \frac{1}{3}\right)$

3) $\frac{c - 11}{\left(\frac{1}{7}\right)} = -1$

4) $2.4 = 4.6 + 0.2z$

5) $\frac{4}{3} = \frac{2}{3}\left(t + \frac{7}{3}\right)$

6) $\frac{9}{2} - 12v = \frac{1}{4}$

7) $0.8y - 4.2 = 9.4$

8) $5g + 4 = -6$

9) $\frac{a + 8}{9} = 3$

10) $1\frac{3}{4} - \frac{5}{6}r = \frac{8}{3}$

Who Am I ?

- 1) If you multiply me by 11
and add 1, you get 67.

What number am I?



- 2) I am half of a number. If you
add 4 to me, you get 12.

What number am I?

- 3) If you multiply me by 6 and
subtract 7 from me, you get 41.

What number am I?

- 4) If you add 2 to me and
divide me by 3, you get 8.

What number am I?

- 5) If you add 1 to me and
multiply me by 2, you get 24.

What number am I?

- 6) If you multiply me by 5 and
subtract 6 from me, you get 14.

What number am I?

- 7) If you add 7 to three times
of me, you get 34.

What number am I?

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Systems of Equations

Solve the following equations.

1) $11x - 12y + 14z = 23$
 $9x + 12y + 7z = 20$
 $10x + 15y - 8z = -24$

2) $12x - 9y + 8z = 6$
 $-14x + 9y + 4z = 2$
 $-12x + 15y + 8z = 10$

3) $-4x - 3y + 2z = 6$
 $4x + 3y - 4z = 3$
 $6x + 5y - 2z = -17$

4) $4x - 7y + 5z = -12$
 $-5x + 7y + 10z = 23$
 $x + 14y - 10z = -21$

5) $9x + 8y - 7z = -3$
 $6x - 4y + 7z = 12$
 $-9x - 10y + 8z = 9$

6) $14x + 12y - 9z = 5$
 $10x - 12y - 15z = -1$
 $-14x + 6y + 9z = 4$

7) $x + 3y - 5z = -10$
 $2x - 6y + 5z = 23$
 $2x + 3y + 10z = 20$

8) $8x + 13y - 7z = -13$
 $12x + 7y - 10z = 5$
 $-8x - 9y + 7z = 5$