

Overview of problems

Example Set: A

1. An open sentence must have a variable?
2. An equation or inequality can be false?
3. Every equation has only one solution?
4. How many solutions does an inequality have?

Example Set: B

Determine if the equation is true, false or an open sentence:

1. $2(3 + 1) = 5 + 3$
2. $8[7(5 - 3)] = 100 - 12$
3. $x + 10 = 14$

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Example Set: C

Check if the given number is a solution:

1. $6x + 1 = 14$, 2

2. $\frac{x}{5} = 4$, 20

3. $4x + 2 = 8 + 2x$, 3

4. $x - 9 \leq 5$, 15

5. $7 + 2y < 8 - y$, 6

6. $2x^2 - 6x + 4 = 0$, 1,2

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Example Set: A -ANSWER KEY

1. An open sentence must have a variable? **True**
2. An equation or inequality can be false? **True**
3. Every equation has only one solution? **Depends, some equations have many solutions or none**
4. How many solutions does an inequality have? **Infinite many**



Example Set: B- ANSWER KEY

Determine if the equation is true, false or an open sentence:

1. $2(3 + 1) = 5 + 3$ **True equation**
2. $8[7(5 - 3)] = 100 - 12$ **False equation**
3. $x + 10 = 14$ **Open sentence**

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Example Set: C-ANSWER KEY

Check if the given number is a solution:

1. $6x + 1 = 14$, 2 **Not a solution**

2. $\frac{x}{5} = 4$, 20 **Solution**

3. $4x + 2 = 8 + 2x$, 3 **Solution**

4. $x - 9 \leq 5$, 15 **Not a solution**

5. $7 + 2y < 8 - y$, 6 **Not a solution**

6. $2x^2 - 6x + 4 = 0$, 1,2 **Solution**