

## *Overview of problems*

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### *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.  $x + 10 = 14$

# Equations, Inequalities and Solutions 1.5



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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**