Solve the equation. Describe the number of solutions (one, none or infinitely many).

$$4x + 6 = 3x + 6 + x$$

When Kyra solved an equation, she ended up with $x = 0$. She stated that there was no solution. Do you agree with Kyra? Explain.

Solve the equation. Describe the number of solutions (one, none or infinitely many).

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

The solution to the equation shown is $x = 3$. What is the value of m?

$$\frac{2}{3}x + m = x + 5$$

TICKET 5

What is the solution to the equation?

$2.8x + 7 = 1.4(2x + 10)$

TICKET 6

Write a number into each box to create an equation that has no real solutions.

$-2(x + 3) + 5 = \square x + \square$

TICKET 7

Solve the equation. Describe the number of solutions (one, none or infinitely many).

$9x - 3 = 6x$

TICKET 8

The solution to the equation shown is $x = -6$. What is the value of p?

$5x - 4 = p + 4$

Write a number into each box to create an equation that has infinitely many solutions.

$4(x + 3) + 1 = \square x + \square$

Solve the equation. Describe the number of solutions (one, none or infinitely many).

$$\frac{1}{2}x + 7 = 4x + 21$$

TICKET TIME ANSWERS

1. Infinitely many solutions.

2. No. Zero is a valid value for x. If she had ended with an equation which wasn't true there would be no solution.

3. Infinitely many solutions.

4. $m = 6$

5. No solution.

6. –2 and any number besides –1

7. One solution; $x = 1$

8. −38

9. 4 and 13

10. One solution; $x = -4$

PEEK SHEET

Infinitely many solutions.

PEEK SHEET

No. Zero is a valid value for x. If she had ended with an equation which wasn't true there would be no solution.

PEEK SHEET

Infinitely many solutions.

$m = 6$

PEEK SHEET

PEEK SHEET

No solution.

PEEK SHEET

–2 and any number besides –1

PEEK SHEET

One solution;

$x = 1$

−38

PEEK SHEET

4 and 13

PEEK SHEET

PEEK SHEET

One solution;

$x = -4$