Name: _____ **Date:** _____

Inverse operations: Answers

(1)
$$2x + 5 = 7$$
$$2x + 5 - 5 = 7 - 5$$
$$2x = 2$$
$$\frac{2x}{2} = \frac{2}{2}$$
$$x = 1$$

(2)
$$9x + 2 = 83$$
$$9x + 2 - 2 = 83 - 2$$
$$9x = 81$$
$$\frac{9x}{9} = \frac{81}{9}$$
$$x = 9$$

(3)
$$10x + 1 = 71$$
$$10x + 1 - 1 = 71 - 1$$
$$10x = 70$$
$$\frac{10x}{10} = \frac{70}{10}$$
$$x = 7$$

(4)
$$5x + 10 = 45$$
$$5x + 10 - 10 = 45 - 10$$
$$5x = 35$$
$$\frac{5x}{5} = \frac{35}{5}$$
$$x = 7$$

(5)
$$8x + 3 = 51$$
$$8x + 3 - 3 = 51 - 3$$
$$8x = 48$$
$$\frac{8x}{8} = \frac{48}{8}$$
$$x = 6$$

(6)
$$7x + 6 = 13$$
$$7x + 6 - 6 = 13 - 6$$
$$7x = 7$$
$$\frac{7x}{7} = \frac{7}{7}$$
$$x = 1$$

(7)
$$3x + 9 = 39$$
$$3x + 9 - 9 = 39 - 9$$
$$3x = 30$$
$$\frac{3x}{3} = \frac{30}{3}$$
$$x = 10$$

(8)
$$9x + 1 = 19$$
$$9x + 1 - 1 = 19 - 1$$
$$9x = 18$$
$$\frac{9x}{9} = \frac{18}{9}$$
$$x = 2$$

(9)
$$2x + 10 = 20$$
$$2x + 10 - 10 = 20 - 10$$
$$2x = 10$$
$$\frac{2x}{2} = \frac{10}{2}$$
$$x = 5$$

(10)
$$3x + 6 = 21$$
$$3x + 6 - 6 = 21 - 6$$
$$3x = 15$$
$$\frac{3x}{3} = \frac{15}{3}$$
$$x = 5$$

(11)
$$6x + 3 = 39$$
$$6x + 3 - 3 = 39 - 3$$
$$6x = 36$$
$$\frac{6x}{6} = \frac{36}{6}$$
$$x = 6$$

(12)
$$2x + 8 = 10$$
$$2x + 8 - 8 = 10 - 8$$
$$2x = 2$$
$$\frac{2x}{2} = \frac{2}{2}$$
$$x = 1$$

(13)
$$7x + 4 = 46$$
$$7x + 4 - 4 = 46 - 4$$
$$7x = 42$$
$$\frac{7x}{7} = \frac{42}{7}$$
$$x = 6$$

(14)
$$9x + 4 = 40$$
$$9x + 4 - 4 = 40 - 4$$
$$9x = 36$$
$$\frac{9x}{9} = \frac{36}{9}$$
$$x = 4$$

(15)
$$4x + 10 = 34$$
$$4x + 10 - 10 = 34 - 10$$
$$4x = 24$$
$$\frac{4x}{4} = \frac{24}{4}$$
$$x = 6$$

(16)
$$4x + 8 = 44$$
$$4x + 8 - 8 = 44 - 8$$
$$4x = 36$$
$$\frac{4x}{4} = \frac{36}{4}$$
$$x = 9$$

(17)
$$5x + 5 = 20$$
$$5x + 5 - 5 = 20 - 5$$
$$5x = 15$$
$$\frac{5x}{5} = \frac{15}{5}$$
$$x = 3$$

(18)
$$9x + 6 = 33$$
$$9x + 6 - 6 = 33 - 6$$
$$9x = 27$$
$$\frac{9x}{9} = \frac{27}{9}$$
$$x = 3$$

(19)
$$6x + 6 = 48$$
$$6x + 6 - 6 = 48 - 6$$
$$6x = 42$$
$$\frac{6x}{6} = \frac{42}{6}$$
$$x = 7$$

(20)
$$9x + 8 = 53$$
$$9x + 8 - 8 = 53 - 8$$
$$9x = 45$$
$$\frac{9x}{9} = \frac{45}{9}$$
$$x = 5$$