Name: _____ **Date:** _____

Inverse operations: Answers

(1)
$$\frac{x+6}{4} = 3$$
$$\frac{x+6}{4} \times 4 = 3 \times 4$$
$$x + 6 = 12$$
$$x + 6 - 6 = 12 - 6$$
$$x = 6$$

(2)
$$\frac{x+6}{6} = 3$$
$$\frac{x+6}{6} \times 6 = 3 \times 6$$
$$x + 6 = 18$$
$$x + 6 - 6 = 18 - 6$$
$$x = 12$$

(3)
$$\frac{x+2}{10} = 5$$
$$\frac{x+2}{10} \times 10 = 5 \times 10$$
$$x + 2 = 50$$
$$x + 2 - 2 = 50 - 2$$
$$x = 48$$

(4)
$$\frac{x+7}{4} = 3$$
$$\frac{x+7}{4} \times 4 = 3 \times 4$$
$$x + 7 = 12$$
$$x + 7 - 7 = 12 - 7$$
$$x = 5$$

(5)
$$\frac{x+6}{7} = 2$$
$$\frac{x+6}{7} \times 7 = 2 \times 7$$
$$x + 6 = 14$$
$$x + 6 - 6 = 14 - 6$$
$$x = 8$$

(6)
$$\frac{x+1}{2} = 7$$
$$\frac{x+1}{2} \times 2 = 7 \times 2$$
$$x + 1 = 14$$
$$x + 1 - 1 = 14 - 1$$
$$x = 13$$

(7)
$$\frac{x+3}{7} = 8$$
$$\frac{x+3}{7} \times 7 = 8 \times 7$$
$$x + 3 = 56$$
$$x + 3 - 3 = 56 - 3$$
$$x = 53$$

(8)
$$\frac{x+1}{10} = 2$$
$$\frac{x+1}{10} \times 10 = 2 \times 10$$
$$x + 1 = 20$$
$$x + 1 - 1 = 20 - 1$$
$$x = 19$$

(9)
$$\frac{x+5}{3} = 7$$
$$\frac{x+5}{3} \times 3 = 7 \times 3$$
$$x + 5 = 21$$
$$x + 5 - 5 = 21 - 5$$
$$x = 16$$

(10)
$$\frac{x+5}{2} = 10$$
$$\frac{x+5}{2} \times 2 = 10 \times 2$$
$$x + 5 = 20$$
$$x + 5 - 5 = 20 - 5$$
$$x = 15$$

(11)
$$\frac{x+8}{5} = 1$$
$$\frac{x+8}{5} \times 5 = 1 \times 5$$
$$x + 8 = 5$$
$$x + 8 - 8 = 5 - 8$$
$$x = -3$$

(12)
$$\frac{x+7}{9} = 6$$
$$\frac{x+7}{9} \times 9 = 6 \times 9$$
$$x + 7 = 54$$
$$x + 7 - 7 = 54 - 7$$
$$x = 47$$

(13)
$$\frac{x+10}{10} = 2$$
$$\frac{x+10}{10} \times 10 = 2 \times 10$$
$$x + 10 = 20$$
$$x + 10 - 10 = 20 - 10$$
$$x = 10$$

(14)
$$\frac{x+10}{8} = 1$$
$$\frac{x+10}{8} \times 8 = 1 \times 8$$
$$x + 10 = 8$$
$$x + 10 - 10 = 8 - 10$$
$$x = -2$$

(15)
$$\frac{x+4}{5} = 5$$
$$\frac{x+4}{5} \times 5 = 5 \times 5$$
$$x + 4 = 25$$
$$x + 4 - 4 = 25 - 4$$
$$x = 21$$

(16)
$$\frac{x+5}{8} = 9$$
$$\frac{x+5}{8} \times 8 = 9 \times 8$$
$$x + 5 = 72$$
$$x + 5 - 5 = 72 - 5$$
$$x = 67$$

(17)
$$\frac{x+8}{2} = 4$$
$$\frac{x+8}{2} \times 2 = 4 \times 2$$
$$x + 8 = 8$$
$$x + 8 - 8 = 8 - 8$$
$$x = 0$$

(18)
$$\frac{x+10}{8} = 3$$
$$\frac{x+10}{8} \times 8 = 3 \times 8$$
$$x + 10 = 24$$
$$x + 10 - 10 = 24 - 10$$
$$x = 14$$

(19)
$$\frac{x+4}{9} = 8$$
$$\frac{x+4}{9} \times 9 = 8 \times 9$$
$$x + 4 = 72$$
$$x + 4 - 4 = 72 - 4$$
$$x = 68$$

(20)
$$\frac{x+3}{9} = 5$$
$$\frac{x+3}{9} \times 9 = 5 \times 9$$
$$x + 3 = 45$$
$$x + 3 - 3 = 45 - 3$$
$$x = 42$$