Name: _____ **Date:** _____

Inverse operations: Answers

(1)
$$5(x+5) = 60$$
$$\frac{5(x+5)}{5} = \frac{60}{5}$$
$$x+5 = 12$$
$$x+5-5 = 12-5$$
$$x = 7$$

(2)
$$8(x+2) = 72$$
$$\frac{8(x+2)}{8} = \frac{72}{8}$$
$$x+2 = 9$$
$$x+2-2 = 9-2$$
$$x = 7$$

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

(4)
$$3(x+9) = 33$$
$$\frac{3(x+9)}{3} = \frac{33}{3}$$
$$x+9 = 11$$
$$x+9-9 = 11-9$$
$$x = 2$$

(5)
$$8(x+7) = 72$$
$$\frac{8(x+7)}{8} = \frac{72}{8}$$
$$x+7 = 9$$
$$x+7-7 = 9-7$$
$$x = 2$$

(6)
$$4(x+1) = 8$$
$$\frac{4(x+1)}{4} = \frac{8}{4}$$
$$x+1 = 2$$
$$x+1-1 = 2-1$$
$$x = 1$$

(7)
$$9(x+8) = 153$$
$$\frac{9(x+8)}{9} = \frac{153}{9}$$
$$x+8 = 17$$
$$x+8-8 = 17-8$$
$$x = 9$$

(8)
$$2(x+6) = 26$$
$$\frac{2(x+6)}{2} = \frac{26}{2}$$
$$x+6 = 13$$
$$x+6-6 = 13-6$$
$$x = 7$$

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

(10)
$$4(x+6) = 64$$
$$\frac{4(x+6)}{4} = \frac{64}{4}$$
$$x+6 = 16$$
$$x+6-6 = 16-6$$
$$x = 10$$

(11)
$$10(x+9)=190$$
$$\frac{10(x+9)}{10}=\frac{190}{10}$$
$$x+9=19$$
$$x+9-9=19-9$$
$$x=10$$

(12)
$$10(x+4)=130$$
$$\frac{10(x+4)}{10}=\frac{130}{10}$$
$$x+4=13$$
$$x+4-4=13-4$$
$$x=9$$

(13)
$$5(x+4)=60$$
$$\frac{5(x+4)}{5}=\frac{60}{5}$$
$$x+4=12$$
$$x+4-4=12-4$$
$$x=8$$

(14)
$$3(x+10)=57$$
$$\frac{3(x+10)}{3}=\frac{57}{3}$$
$$x+10=19$$
$$x+10-10=19-10$$
$$x=9$$

(15)
$$5(x+3)=30$$
$$\frac{5(x+3)}{5}=\frac{30}{5}$$
$$x+3=6$$
$$x+3-3=6-3$$
$$x=3$$

(16)
$$3(x+3)=21$$
$$\frac{3(x+3)}{3}=\frac{21}{3}$$
$$x+3=7$$
$$x+3-3=7-3$$
$$x=4$$

(17)
$$10(x+2)=80$$
$$\frac{10(x+2)}{10}=\frac{80}{10}$$
$$x+2=8$$
$$x+2-2=8-2$$
$$x=6$$

(18)
$$9(x+7)=99$$
$$\frac{9(x+7)}{9}=\frac{99}{9}$$
$$x+7=11$$
$$x+7-7=11-7$$
$$x=4$$

(19)
$$2(x+7)=30$$
$$\frac{2(x+7)}{2}=\frac{30}{2}$$
$$x+7=15$$
$$x+7-7=15-7$$
$$x=8$$

(20)
$$8(x+3)=88$$
$$\frac{8(x+3)}{8}=\frac{88}{8}$$
$$x+3=11$$
$$x+3-3=11-3$$
$$x=8$$