SHOW ALL WORK to receive full credit.

Multiply or divide and show your work. (2 points each)

Complete the following domain/range tables. (6 points each)

4.

X	y = 7x + 2	у
8		
1		
2		
0		
4		
3		

5.

X	y = 10x - 9	у
9		
4		
7		
5		
10		
2		

Complete the following without the use of a table, but still think of the mental percents to help you. (2 points each)

Solve the following equations. (3 points each)

10.
$$5x + 6 = 41$$

11.
$$2x + 54 = 8x + 6$$

12.
$$\frac{9}{27} = \frac{x}{12}$$

13.
$$\frac{x+3}{48} = \frac{5}{6}$$

14.
$$\frac{14}{x+7} = \frac{20}{x+16}$$

15.
$$\frac{x+1}{9} = \frac{x+3}{15}$$

16.
$$3(6x + 1) = 2(3x + 7) + 1$$

17.
$$4(3x + 12) + 9 = 7(2x + 7) + 2x$$

SHOW ALL WORK to receive full credit.

Multiply or divide. (2 points each)

Complete the following domain/range tables. (6 points each)

4.

Х	y = 3x + 6	У
1		
5		
2		
0		
9		
7		

5.

Х	y = 8x - 4	У
9		
4		
7		
6		
11		
2		

Complete the following without the use of a table, but still think of the mental percents to help you. (2 points each)

6. What is 50% of \$95.00?

- 7. What is 85% of 60? _____
- 8. What is 36% of \$460.00? _____
- 9. What is 4% of 72? _____

Solve the following equations. (3 points each)

10.
$$4x - 3 = 37$$

11.
$$6x + 12 = 10x - 4$$

12.
$$\frac{8}{16} = \frac{x}{34}$$

13.
$$\frac{x+4}{54} = \frac{2}{12}$$

14.
$$\frac{4}{x+4} = \frac{3}{x+1}$$

15.
$$\frac{x+4}{4} = \frac{x+9}{6}$$

16.
$$4(2x+6) = 3(3x+7)$$

17.
$$3(2x + 8) + 3x = 4(x + 10) + 4$$

SHOW ALL WORK to receive full credit.

Multiply or divide. (2 points each)

Simplify the following expressions using positive and negative integers.. (1 point each)

$$4. -8 + 2 =$$
 $5. -9 + 1 =$ $6. 4 - 8 =$ $7. 5 - 7 =$

$$5. -9 + 1 =$$

6.
$$4 - 8 =$$

7.
$$5-7=$$

$$8. -8 + 8 =$$

9.
$$-3 - 1 =$$

10.
$$-3 + 5 =$$

12.
$$5 - 9 =$$

13.
$$-7 - 8 =$$

12.
$$5-9=$$
 13. $-7-8=$ 14. $-8+1=$ 15. $2+7=$

15.
$$2 + 7 =$$

Complete the following without the use of a table, but still think of the mental percents to help you. (2 points each)

Solve the following equations. Show all work. (3 points each)

20.
$$6x - 4 = 38$$

21.
$$4x + 10 = 9x - 5$$

22.
$$\frac{1}{x} = \frac{5}{15}$$

$$23. \qquad \frac{20}{45} = \frac{x+3}{18}$$

24.
$$\frac{4}{x+3} = \frac{8}{x+9}$$

25.
$$\frac{x+1}{20} = \frac{x+5}{36}$$

26.
$$3(2x + 3) + 9 = 10(x + 1)$$

27.
$$4(6x + 7) + x - 4 = 5(4x + 12) + 9$$