SHOW ALL WORK to receive full credit.

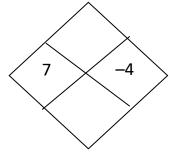
Multiply or divide. (2 points each)

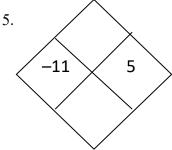
Divide. (3 points)

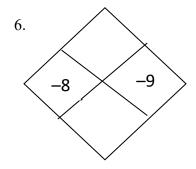
3.

Complete the diamond problems. (2 points each)

4.







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

7.
$$8 - 10 =$$

8.
$$-4-8=$$

9.
$$-4 + 8 - 7 =$$

10.
$$9 - 6 - 2 =$$

11.
$$-3-2+7=$$

11.
$$-3 - 2 + 7 =$$
 12. $6 + 4 - 2 + 5 =$

13.
$$-15 + 5$$

15.
$$\begin{array}{c} -9 \\ -4 \end{array}$$

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. (2 points each)

20.
$$-5x = 20$$

21.
$$x + 8 = 5$$

22.
$$6x - 2 = 3x + 10$$

23.
$$5x + 6 = -4$$

(3 points each)

24.
$$\frac{3}{-8} = \frac{6}{x}$$

25.
$$\frac{3}{4} = \frac{x-3}{8}$$

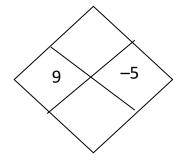
$$26. \qquad \frac{x+4}{3} = \frac{x+20}{5}$$

27.
$$4(8x + 3) = 7(x + 6) + 20$$

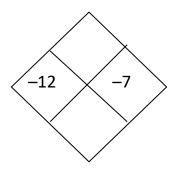
SHOW ALL WORK to receive full credit.

Complete the diamond problems. (2 points each)

1.



2.



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

$$3. 6 - 11 =$$

4.
$$-1-3=$$

$$5. -7 + 10 - 2 =$$

6.
$$9 - 1 - 6 =$$

7.
$$-8 - 3 + 5 =$$

7.
$$-8 - 3 + 5 =$$
 8. $3 + 8 - 8 + 6 =$

$$10. \qquad \begin{array}{r} 3 \\ -17 \end{array}$$

11.
$$-11$$

 -7

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

12. What is 27% of \$280.00? _____

13. What is 35% of 20? _____

14. What is 85% of \$140.00?

15. What is 60% of 72? _____

Answer each of the following applications to Mental Percents questions. Answers must be rounded to the nearest cent (hundredths). (2 points each)

16. Macy's is having a sale on winter coats this weekend and is selling them for 25% off the marked price. What would be the sale price of a coat that originally sold for \$200.00?

Discount:

Sales Price: ____

17. Home Depot is having an end of summer sale, so all gardening supplies are 35% off the marked price. What would be the sale price of a hose that is originally sold for \$25.00?

Discount: _____

Sales Price:

Solve the following equations. (2 points each)

18.
$$-8x = 32$$

19.
$$x + 13 = 2$$

20.
$$7x - 4 = 6x + 2$$

21.
$$8x + 4 = -20$$

(4 points each)

22.
$$\frac{3}{-4} = \frac{x}{8}$$

23.
$$\frac{6}{3} = \frac{x-2}{4}$$

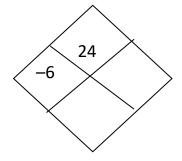
$$24. \qquad \frac{x-5}{20} = \frac{x+7}{10}$$

25.
$$5(3x+6) = 6(4x+3) - 3x$$

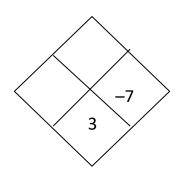
SHOW ALL WORK to receive full credit.

Complete the diamond problems. (1 point each)

1.



2.



Combine the following. (1 point each)

$$3. 7 - 15 =$$

$$4. -10 -3 =$$

5.
$$-7 + 8 - 2 =$$

$$6.9 - 7 - 6 =$$

$$7. -9 - 3 + 6 =$$

8.
$$6 - 8 + 4 - 2 =$$

9.
$$-16 + 4$$

$$\begin{array}{c}
7 \\
-21
\end{array}$$

11.
$$-15$$

 -7

12.
$$7x - 5 - 3x$$

13.
$$6x - 4 - 8x + 9$$

14.
$$-5x + 3 - 4x - 7$$

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

- 15. What is 22% of \$130.00?
- 16. What is 15% of \$36.00? _____

17. What is 8% of 250.00? _____

18. What is 60% of 72?

Answer each of the following applications to Mental Percents questions. Answers must be rounded to the nearest cent (hundredths). (2 points each)

19. REI is having a sale on snow boards this weekend and is selling them for 30% off the marked price. What would be the sale price of a snow board that originally sold for \$380.00?

Discount:

Sales Price:

20. Ikea is having an end of summer sale, so all outdoor furniture is 35% off the marked price. What would be the sale price of a patio set that is originally sold for \$850.00?

Discount: _____

Sales Price:

Solve the following equations. (2 points each)

21.
$$6x = -42$$

22.
$$x + 9 = 5$$

23.
$$9x + 7 = 6x - 8$$

24.
$$7 - 2x = -5$$

(4 points each)

25.
$$\frac{5}{x} = \frac{-6}{18}$$

26.
$$\frac{14}{x-3} = \frac{7}{4}$$

$$27. \qquad \frac{5}{x-3} = \frac{8}{x+3}$$

28.
$$4(5x-3)-4x=7(2x+1)-3$$