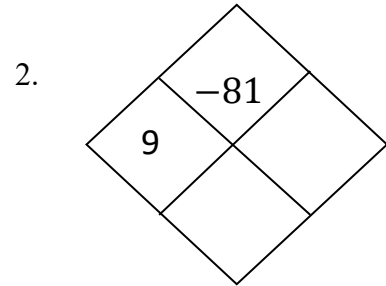
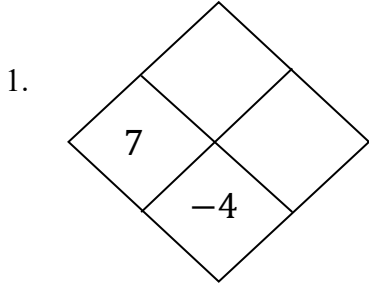


SHOW ALL WORK to receive full credit.

Complete the diamond problems. (2 points each)



Simplify the following expressions using positive and negative integers. (2 points each)

3.
$$\frac{10x}{-14x}$$

4.
$$\frac{-2}{+13}$$

5. $5x - 8 - 2x + 11$

6. $-3x + 7 - 20x - 12$

7. $-4(5 + 3x) + 8$

8. $2(-7x + 3) - (-9 + 5x)$

Use the percent Formula $\frac{\text{is}}{\text{of}} = \frac{\%}{100}$ to solve the following. Round money answers to the nearest cent (hundredth), all others to the nearest tenth. (2 points each)

9. 20 is _____% of 80

10. 75% of 60 is _____

11. 120 out of 200 is _____%

12. 60% of _____ = 30

Complete the following without the use of a table, but still think of the mental percents to help you. (3 points each)

13. What is 45% of \$1,800.00? _____

14. What is 60% of \$75.00? _____

Answer each of the following applications to Mental Percents questions. Answers must be rounded to the nearest cent (hundredths). (4 points each)

15. Mr. Loken wanted to buy some Halloween candy for the trick-or-treaters in his neighborhood. He found a candy sale at Rite Aid for 30% off the regular price of \$5.00 per bag. If he bought 8 bags of candy, what was the total cost of his candy purchase?

Total Original Price for 8 Bags: _____

Amount of Discount for 8 bags: _____

Sales Price for 8 Bags: _____

16. The Halloween Party Store in Folsom had all of their costumes on sale for 80% off since it is after Halloween. You want to purchase a costume of the Grim Reaper that was originally priced for \$75.00. How much will you have to pay for the costume?

Discount for the costume: _____

Sale price for the costume: _____

Solve the following equations. (3 points each)

17. $2x - 14 - 4x = -11 - 3x$

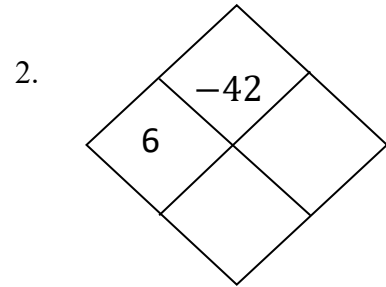
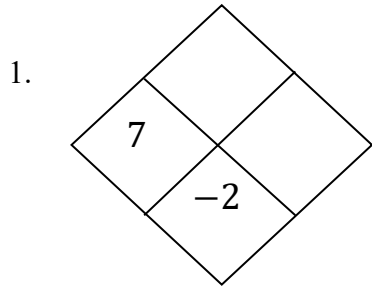
18. $4 - (5x + 6) - 3 = -30$

19. $2(3x - 5) + 4x = 4(x + 3) - (x + 1)$

20. $\frac{15}{2x-10} = \frac{1}{2}$

SHOW ALL WORK to receive full credit.

Complete the diamond problems. (2 points each)



Simplify the following expressions using positive and negative integers. (2 points each)

3. $\frac{-8x}{12x}$

4. $\frac{-5}{+13}$

5. $5x + 8 - 12x + 1$

6. $-3x + 7 - 10x + 15$

7. $-7(8 - 3x) + 8$

8. $2(-7x + 3) - (6 - 5x)$

Use the percent Formula $\frac{\text{is}}{\text{of}} = \frac{\%}{100}$ to solve the following. Round money answers to the nearest cent (hundredth), all others to the nearest tenth. (2 points each)

9. 12 is _____% of 300

10. 44% of 75 is _____

11. 126 out of 150 is _____%

12. 5% of _____ = 6

Find the percent of increase or decrease. Round % to the nearest tenth if necessary. (3 points each)

13. Last year the price of ticket for the River Cats game was \$15.00. This year they are selling the same ticket for \$12.00.

Is this an increase or decrease? _____ How much? _____

What is the percent of increase or decrease? _____

14. Last month the cost of a Venti, peppermint mocha java chip frappuccino with whip cream on the bottom and top, blended twice with chocolate and sprinkles sold for \$4.65. This month they cost \$4.95. What is the percent of increase or decrease?

Is this an increase or decrease? _____ How much? _____

What is the percent of increase or decrease? _____

Answer each of the following applications to Mental Percents questions. Answers must be rounded to the nearest cent (hundredths). (4 points each)

15. The day after Halloween, Mr. Loken wanted to buy some candy for the trick-or-treaters next year. He found a candy sale at Walgreens for 60% off the regular price of \$5.00 per bag. If he bought 20 bags of candy, what was the total cost of his candy purchase?

Total Original Price for 20 Bags: _____

Amount of Discount for 20 bags: _____

Sales Price for 20 Bags: _____

16. Best Buy had all their cell phone accessories on sale for 25% off. Victoria bought a car charger marked \$25.00, and a case marked \$18.00. How much will you have to pay for the cell phone accessories?

Total cost before discount: _____

Total discount: _____

Total sale price : _____

Solve the following equations. (3 points each)

17. $2x + 15 = 43 - 5x$

18. $\frac{x+2}{4} = \frac{-2x-5}{-7}$

19. $-c - 5 - 13c + 10 = 6c - 66 - 30c - 9$

20. $-8 = 7(5 - y) - 3(-6y - 4)$

SHOW ALL WORK to receive full credit.

Simplify the following expressions using positive and negative integers. (2 points each)

1.
$$\frac{-15x}{+ 2x}$$

2.
$$\frac{- 15}{- 3}$$

3. $-5x + 8 - 2x - x$

4. $-13x + 7 - 2x + 12$

5. $-5(5 - 3x) + 8$

6. $4(-3x + 3) - (9 - 5x)$

Use the percent Formula $\frac{\text{is}}{\text{of}} = \frac{\%}{100}$ to solve the following. Round money answers to the nearest cent (hundredth), all others to the nearest tenth. (2 points each)

7. 15 is _____% of 60

8. 145 is 40% of _____

9. 80% of 30 is _____

10. 54 is _____% of 90

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

11. What is 11% of \$650.00? _____

12. What is 75% of \$125.00? _____

Answer each of the following applications to Mental Percents questions. Answers must be rounded to the nearest cent (hundredths). (3 points)

13. Mr. Loken wanted to buy some cookies. He found some cookies on sale at Rite Aid for 25% off the regular price of \$4.60 per bag. If he bought 2 bags of cookies, what was the total cost of his purchase?

Total Original Price for 2 Bags: _____

Amount of Discount for 2 bags: _____

Sales Price for 2 Bags: _____

14. The Christmas store in Macy's had all of their ornaments marked down 20%. If Mrs. Frost bought 5 ornaments that were originally priced at \$5.60, how much did she spend on the ornaments? **(3 points)**

Total Original Price for 5 ornaments: _____

Amount of Discount for 5 ornaments: _____

Sales Price for 5 ornaments: _____

Solve the following equations. (3 points each)

15. $3(x - 4) = 9$

16. $4 - 3(5 - x) - 2 = -5(x + 1)$

17. $2(x - 5) - 3(5x + 1) = 4(2x + 4) + 1 - 6x$

18. $\frac{20}{2x-10} = \frac{2}{3}$

Find the percent of increase or decrease. Round % to the nearest tenth if necessary. (3 points each)

19. Gasoline prices decreased during the last two months. The price of a gallon of gas went from \$4.00 per gallon to \$3.60 per gallon. What is the percent of decrease on a gallon of gas?

Is this an increase or decrease? _____ How much? _____

What is the percent of increase or decrease? _____

20. Starbucks raised their prices on their coffee drinks. The price of a tall Latte went from \$2.15 to \$2.50. What is the percent of increase?

Is this an increase or decrease? _____ How much? _____

What is the percent of increase or decrease? _____