Weekly 7 CC2 and Fractions Name _____

MONDAY

1. $6\frac{1}{5} + (-3\frac{3}{7})$ = _____ 2. -8 + 97 + (-41) - (-16) = _____ 3. Convert 14.1% to a fraction _____

Simplify by combining like terms.

4. 8b - (6b + 8) + 13 = _____ 5. 2(h - 7) + 4(5 + 3h) = _____

6. $8j + 4(3j^2 - 5j) + 2j^2$ = _____ 7. 8(4v - 5) - 6(10 - v) = _____

Solve for the unknown variable. Answer as fractions if they do not come out even.

8. _____ 8 + 4y = 25 9. _____ -90 = 6 - 5f 10. _____ $30 + \frac{m}{3} = -7$

11. _____ 75 = -9 - 12k 12. _____ 4 - 15p = 20 13. _____ 6f = 43

14. _____ $\frac{d}{9}$ - 13 = -35 15. _____ 13j + 5 - 2j = 19 16. _____ 7(2f - 4) = 41

Convert each word phrase into an algebraic expression or equation. SOLVE IF POSSIBLE.

17. _____ Triple the quantity 9 less than a number is 140.
18. _____ The product of a number and 8 increased by 13 is 26.
19. _____ _____ _____ A triangle has sides of length w, 9 more than w, and 4 fewer than twice w. The perimeter of the triangle is 77 units. What are the length of the three sides?
20. _____ Tulips cost $3 each and roses cost $2 each. Every Friday Ben buys a bouquet of tulips and roses for his girlfriend. Write an expression that describes the price of Ben's bouquet.
21. _____ Ben decides to always include 8 tulips in the bouquet. Write an expression that will describe the price of Ben's bouquet after his decision.
22. _____ After this (8 tulip) decision he was charged $50 for the bouquet. How many roses were in the bouquet?

TUESDAY

1. $-5\frac{5}{6} \div (-2\frac{6}{7})$ = _____ 2. 3(-7) - 4(-10) = _____ 3. _____ Convert $5\frac{7}{16}$ to a percent.

Select each expression that is equivalent to the original.

4. 16g + 40
   a. 26g - 10(g - 4) b. 8(2g + 10) c. 3(5g + 10) - (-g -10) d. 50g - 41 + 9(9 - 3g) - 7g

5. 8(3b + 4) + 4
   a. 24b + 8 b. 2(12b + 18) c. 30b - 6(b - 6) d. 2(6b + 3) + 3(10 + 5b)

Reverse the distributive property.

6. 20p - 70 = _____ 7. 18p - 30 = _____ 8. 28 + 7f = _____

Solve for the unknown variable. Answer as fractions if they do not come out even.

9. _____ 12g + 3(g + 5) = -65 10. _____ 8 - 5(2y + 7) = 14 11. _____ $\frac{c}{6}$ - 8 = -66

12. _____ 8k + 17 = 5k + 42 13. _____ 5(4w + 3) = 9(w + 10) 14. _____ 12v - 16 = 9v

Convert each word phrase into an algebraic expression or equation.

15. _____ To rent the roller rink for a party they charge a flat fee of $30 and fee for each skater. The costs is $118.80 for a party with 24 skaters. Write an equation that represents this relationship. How much do they charge for each skater?
16. _____ The perimeter of a rectangle with a width of c and a length that is 9 fewer than triple c is 142 u. What is the width and length of the rectangle?
17. _____ Ron and Briana both earn $12 per hour at their job. Briana made an additional $72 of overtime this week. Together they earned a total of $420. How many hours did they work together?
18. _____ Triple the quantity 6 increased by the product of 9 and a number d is 240.

Sayings

19. Top number..._____
20. Two things on top of each other means..._____
21. Divide...2 places right..._____
22. Multiplication/Division...even number of negatives...ALWAYS _____

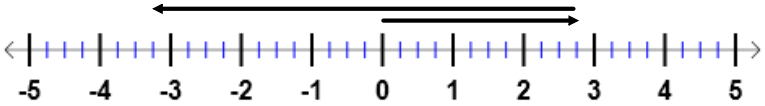
WEDNESDAY

1. $9 - 31 - (-6) + (-2) =$ _____ 2. $(-1)^{78} =$ _____ 3. $-3(-9) + (-60) - 2(5 - 12) =$ _____

Write the problem and answer that is shown on each number line.

4. _____

5. _____



Convert each word phrase into an algebraic expression or equation. SOLVE if possible.

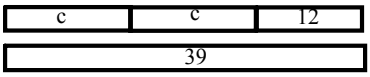
6. _____ The first shopping cart requires 3 feet of space. Each additional cart fits into the cart directly in front of it consequently requiring only 1.4 feet of space. How many carts can Dillons fit in a cart space of 45 feet?
7. _____ The tables at Parent-Teacher conferences required 4 chairs each. There were an additional 36 chairs set up for people waiting. If there were a total of 108 chairs used, how many tables were used?
8. _____ 18 less the product of 7 and a number is 5 more than triple that same number.

Solve for the variable. WATCH OUT for Identity or Empty Set problems.

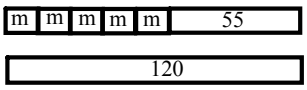
9. _____ $4b + 16 = 2(10 + 2b) - 4$ 10. _____ $-8(b - 5) + 13 = 52$ 11. _____ $y \div 3 + 5 = -44$

12. _____ $\frac{w}{2} - 3 = 12$ 13. _____ $7(4f - 2) = 2(14f + 10)$ 14. _____ $9g + 2(3g + 5) = 7g$

15. _____



16. _____



THURSDAY

Solve for the variable. Answer as fractions if it does not come out even.

1. _____ $15g + 4 = 9(2g - 10)$ 2. _____ $h(7 + 4) = 5(4h - 6)$ 3. _____ $\frac{h + 16}{4} = 14$

4. _____ $9 - 2(m + 7) = 5m + 1$ 5. _____ $6r + 5 - 10r = -25$ 6. _____ $-(2d - 7) = 4(3d + 1)$

7. _____ $8f + 5 < 20$ 8. _____ $7 + 2y \geq -17$ 9. _____ $2(5w + 4) < 38$

Write an algebraic equation or inequality to fit each situation. Then solve.

10. I can spend at most $140 on my sister's Christmas gift. I plan on paying $95 for a pair of shoes and using the remaining money to purchase packages of AA batteries that cost $4 each. How many packages of batteries will I be able to purchase? **Equation/Inequality** _____ **Solution** _____

11. Chris has 250 football cards. Nancy has 26 fewer than double the amount of cards that Chris has. How many cards does Nancy have? **Equation/Inequality** _____ **Solution** _____

12. 8 increased by the quotient of a number and 5 is less than 60.
Equation/Inequality _____ **Solution** _____

Identify the property that is being shown.

13. _____ $175 \times 0 = 0$
14. _____ $g \times \frac{1}{g} = 1$
15. _____ $9 + (3 + 4) = 9 + (4 + 3)$
16. _____ $14 \times 1 = 14$
17. _____ $6(3j + 5) = 6(3j) + 6(5)$
18. _____ $u + 0 = u$

Solve and graph each inequality.

19. _____ $3 + 4g \geq -5$ 20. _____ $3k - 20 < -8$