Weekly 8 CC2 and Fractions Name _____

MONDAY

1. $1\frac{5}{8} - (-2\frac{2}{3})$ = _____ 2. -9 - 11 - (-6) + 4(-3) = _____ 3. Convert $1\frac{7}{9}$ to a decimal _____

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

4. _____ $\frac{m}{-4} = 3$ 5. _____ $g + 15 \leq -21$ 6. _____ $8 = 20 - 4h$

7. _____ $15 + 7w > -1$ 8. _____ $\frac{m+8}{5} = -2$ 9. _____ $4f = 3(5 - f)$

10. _____ $2 + 7(n - 3) = 4n + 8$ 11. _____ $6a - (9a - 13) = 20 + 8a$ 12. _____ $4(8k + 3) = 32k$

13. _____ $5h + 14 - 9h = 8 - 4h + 6$ 14. _____ $2j - 4(3j + 5) = 7 + 2(j - 3)$ 15. _____ $\frac{2}{3}g + 7 = \frac{3}{4}$

Convert the word phrase into an algebraic expression, equation, or inequality. SOLVE IF POSSIBLE.

16. The science test included some multiple choice questions that were 5 points each and three essay questions that were each worth 10 points. There were 85 total points possible on the test. How many multiple choice questions were on the test? **Expression/Equation/Inequality** _____ **Solution** _____

TUESDAY

1. $5\frac{1}{3} \times (-1\frac{3}{4})$ = _____ 2. -3(8) - 4(-5) - (-3) = _____ 3. _____ Convert 8 to a percent.

Select each expression that is equivalent to the original.

4. $\frac{60p + 24}{3}$

a. 4(5p + 2) b. 20p + 12 c. 10p + 2(5p + 4) d. 8p - 7(4p -1) + 1

5. 5(6 - 7f) + 15

a. -35f + 30 b. 35f + 45 c. $\frac{90 + (-70f)}{2}$ d. -5(7f - 9)

Reverse the distributive property.

6. 15 + 9h= _____ 7. 36k - 6 = _____ 8. $44n^2 + 12n$ = _____

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

9. _____ 8 - (10h + 3) = 4h + 25 10. _____ 12m + 4 = 3(2 + 4m) 11. _____ $\frac{30 + w}{7} = -4$

12. _____ a = 5(3 + 2) 13. _____ 8y = 3(5y - 4) 14. _____ 8 + 5h - 14 = 6(2h - 3)

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

15. _____ Maylee is trying to raise money for an orphanage in South Sudan. Her grandparents gave her a $140 donation. She sold glasses of lemonade for $1.50 each. She wants to raise more than the $305 she raised last year. How many glasses of lemonade does she need to sell?

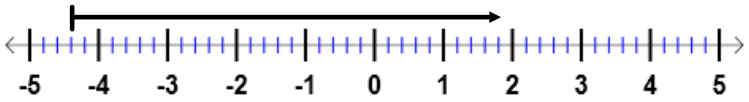
16. _____ _____ _____ The perimeter of a triangle is 75 units. The triangle has sides of c, 1 more than double c, and 10 fewer than triple c.

WEDNESDAY

1. 4 - 2(-7) - 60 = _____ 2. Write $-6\frac{2}{5}$ as an improper fraction _____

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

3. _____



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

4. _____ I can spend at most $24 at McDonalds. I am going to buy 3 boxes of Mcnuggets that cost $5 each and spend the remaining money on McFlurries at a cost of $3 each. How many McFlurries can I afford?

5. _____ The sum of two numbers is 108. One number is 3 fewer than double the other number. _____ _____ What are those two numbers?

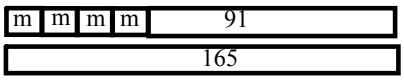
Solve for the variable.

6. _____ $2 = -6j + 13$ 7. _____ $\frac{w}{8} - 3 \leq -5$ 8. _____ $5(3 - 4v) + 6 = -15v + 13$

9. _____ $\frac{f - 10}{6} = 12$ 10. _____ $8(2b + 5) = 4(4b + 9)$ 11. _____ $17g + 5 - 13g = 25g$

14. Equation _____ Solution _____ 15. What were the length and width of the rectangles? (Reverse the Distributive Property.)

12. _____ $-(5 - 6g) = 7 - 2(5g + 1)$ 13. _____ $\frac{1}{8}c + \frac{2}{3} = \frac{1}{2}$



THURSDAY

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

1. _____ $10c = 5 - 3(5c + 4)$ 2. _____ $3(y - 5) = 10y + 6 - 4y$ 3. _____ $\frac{m - 15}{3} \leq 11$

4. _____ $6 - 5y = 2(7 + 6y)$ 5. _____ $\frac{3}{5}e - \frac{7}{10} = \frac{1}{2}$ 6. _____ $-(g + 4) = 5g + 12 - g$

7. _____ $10h - 12 < 31$ 8. _____ $6 + 4y \geq -3$ 9. _____ $4(6 + w) > 20$

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

10. Mrs. Meis has 26 calculators. I have at most twice that amount less 8. How many calculators do I have?
Equation/Inequality _____ **Solution** _____

11. Bill has $90 fewer than his friend Greg. Together they have a total of $462. Find the amount of money each guy has. **Equation/Inequality** _____ **Solution** _____

12. 16 more than the product of 14 and g is 6 fewer than twice the quantity 5 decreased by 9 of g.
Equation/Inequality _____ **Solution** _____

Identify the property that is being shown.

13. _____ **-9 + 0 = -9**
14. _____ **$4 \times \frac{1}{4} = 1$**
15. _____ **9 x (2 x 15) = (9 x 2) x 15**
16. _____ **3(58) = 3(60) - 3(2)**
17. _____ **0 = 74 x 0**
18. _____ **u + 0 = u**

Solve and graph each inequality.

19. _____ $7v + 14 > -7$

20. _____ $3w - 5 \leq 19$