Weekly 6 CC2 and Fractions Name _____

MONDAY

1. _____ Convert $\frac{-17}{5}$ to a mixed number.

2. _____ Convert $7\frac{3}{4}$ to an improper fraction

3. $10 + (-3\frac{4}{9}) =$ _____

4. $-8\frac{2}{5} \times \frac{3}{7} =$ _____

5. $-4\frac{1}{6} \div (-11\frac{2}{3}) =$ _____

Apply the Distributive Property

6. $7(4r + 9w) =$ _____

7. $-(6 - 5d) =$ _____

8. $-4(3b - 7) =$ _____

Simplify by combining like terms.

9. $10 + 2(3j + 6) + 5j =$ _____

10. $8k - (5 - 7k) + 3 =$ _____

11. $3h + 15 - 7 - 6h + 4h^2 =$ _____

12. $5g - 7(g + 2) - 10 =$ _____

Convert each word phrase into an algebraic expression or equation.

13. _____ Triple the sum of 9 and g
14. _____ The difference of 6 and the product of 2 and c
15. _____ 25 fewer than half of a number y
16. _____ The quotient of 10 and g is 4 less than g
17. _____ 9 subtracted from the product of m and 8
18. _____ 9 is 58 less than an number d
19. _____ Harold (h) is 9 years younger than twice the age of his sister Jessica (j).
20. _____ The sum of a number g and twice that number g is increased by 15.

Sayings

21. Two things right next to each other means _____.
22. Addition...different signs so we _____.

24. $h - 19 = -6$

25. $-4m = 17$

26. $\frac{w}{7} = -3$

TUESDAY

1. _____ Convert $\frac{-19}{16}$ to a mixed number.

2. _____ Convert $7\frac{4}{5}$ to an improper fraction

3. $-8\frac{1}{6} \div 4\frac{2}{3} - 1\frac{1}{2} =$ _____

4. $\frac{-1}{10} + \frac{-1}{2} \times 1\frac{1}{7} =$ _____

Apply the Distributive Property

5. $-3(2 + 9h) =$ _____

6. $8(4f + 3c) =$ _____

7. $-(4 - y) =$ _____

Simplify by combining like terms.

8. $8d + 7(2d + 4) - 6 =$ _____

9. $f(2f + 3) + 6 =$ _____

10. $3w^2 + 8 - w + 7w^2 =$ _____

11. $2(6 - 4v) - (5v + 1) =$ _____

Convert each word phrase into an algebraic expression or equation.

12. _____ 85 decreased by half of a number
13. _____ 15 decreased by the quantity 7 plus double a number
14. _____ The quotient of a number and -8
15. _____ g less than triple the sum of 5 and 4w
16. _____ The perimeter of a rectangle with a width of w and a length that is triple its width is 112 units.
17. _____ Kerry earns $12 each overtime hour he works plus a weekly salary of $200. Write an expression that will describe how much Kerry earns in 8 weeks.
18. _____ Mrs. Meis eats 4 pickles every weekday (M-F) and 9 pickles each day on the weekend. Write an expression that will describe how many pickles she eats in 3 full weeks.

Solve for the variable

19. _____ $8 + h = 20$

20. _____ $6c = 42$

21. _____ $b - 13 = 5$

22. _____ $\frac{a}{5} = 6$

WEDNESDAY

1. -3 - 8 - (-20) + (-5) = _____ 2. 2(-1)(2)(-3)(-1) = _____ 3. 5(-2) - 4(-3) = _____

Apply the Distributive Property

4. 2(-6 + k) = _____ 5. -5(4m - 3) = _____ 6. 8(b + 2c) = _____

REVERSE the Distributive Property to factor out common factors.

7. 12w + 4 = _____ 8. $20b + 35b^2$ = _____ 9. 9 - 21g = _____

Simplify by combining like terms.

10. 6(j - 1) + 5(4 + 2j) = _____ 11. 3a - 6(a - 4) + 9 = _____

12. $-5v^2 + 15v - 7 - 3v - 2v^2$ = _____ 13. y - (5 + 3y) - 17 = _____

Convert each word phrase into an algebraic expression or equation.

14. _____ Shirts cost (d) dollars and jeans cost (j) dollars. How much will it cost for 3 shirts and a pair of jeans?
15. _____ 15 more than half a number is 75. What is that number?
16. _____ Carl has $60 in his savings account. He earns $15 for each lawn he mows. How many lawns will he have to mow to have a total of $255?
17. _____ Triple the sum of 12 and a number is 78.

Solve for the variable

18. _____ b - 12 = -15 19. _____ -2c = -28 20. _____ y ÷ 7 = -3 21. _____ p +11 = -1

22. _____5y + 3 = -17 23. _____ 9 - 3g = 33 24. _____ $\frac{w}{6}$ + 13 = 20 25. _____ 8 - 2g = 44

THURSDAY

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

1. _____ 8 - 3(-2b + 4) = 20 2. _____ 5p -7 - 2p = 38 3. _____ -12 = 3c + 2(4c + 1)

4. _____ 8g + 14 - 3g + 6 = 32 5. _____ 8f - (3f - 10) = 40 6. _____ 24 = 3 + 6(3d + 4)

7. _____ 8(a - 10) + 4a = 9 8. _____ 12 + 5(2v + 3) = -24 9. _____ 30 = 5y - 4(3y + 2)

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

10. Direct TV costs $40 each month plus $3 for each movie you stream. Last month I was billed $76 by Direct TV. How many movies did I stream? **Equation** _____ **Solution** _____

11. Mrs. Howard teaches 6 hours of math. She gave away (c) candy bars as prizes to each class. She also ate 2 candy bars each day herself. At the end of a 5 day week she had gone through a bag of 130 candy bars. How many candy bars was she giving away to each class? **Equation** _____ **Solution** _____

12. The balcony at the dance can hold 64 people. On the main floor there are 30 tables for seating. How many people will need to sit at each table if there will be 334 people attending the dance?
Equation _____ **Solution** _____

Identify the property that is being shown.

13. _____ (4 x 3) x 7 = 7 x (4 x 3) 14. _____ 31 x 0 = 0
15. _____ 3(2 + 6g) = 6 + 18g 16. _____ -88 + 88 = 0
17. _____ c x 1 = c 18. _____ (3 + 5) + 2 = 3 + (5 + 2)