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Assignment 1-1

Sec 1 H

Order of Operations & Solving Equations

Unit 1

Evaluate each expression. Be sure to show your work!

1. 8^2

2. $24 \div 6 + 2^3 \cdot 4$

3. $35 - 3 \cdot 8$

4. $\frac{(12 - 6) \cdot 5^2}{3}$

5. $5 + (-24) \div 6$

6. $(18)(-2) - 3(-7)$

7. $\frac{18 \div 9 + 2 \cdot 6}{15 \div 3 + 2 \cdot 7 + 81 \div 9}$

8. $3[4 - 8 + 4^2(2 + 5)]$

$$9. \quad \frac{(-3)(-12) - (-4)}{-22 - 20(-3)}$$

$$10. \quad \frac{3(-9) - (-7)}{-42 - (-2)(-4)}$$

$$11. \quad \frac{8(-4) - (-5)}{(-22)(-4) + (-4)}$$

$$12. \quad \frac{(-5)(4) - (-5)}{-23 - 2(11)}$$

Use inverse operations to solve each equation. Be sure to show your work!

$$13. \quad 3r + 7 = -5$$

$$14. \quad 12 - 2a = 24$$

$$15. \quad 2y - 5 = 27$$

$$16. \quad -5 + 2p = -11$$

17. $4(j+1) = 40$

18. $\frac{w-4}{5} = -3$

19. $\frac{x}{3} - 4 = 12$

20. $18 - (-f) = 91$

21. $-16 - (-t) = -45$

22. $\frac{x}{2} = 10$

23. $\frac{b}{7} = -11$

24. $3m + 4 = -11$

25. $12 = -7f - 9$

26. $7c + 12 = -4c + 78$

27. $2m - 13 = -8m + 27$

28. $6 + 3t = 8t - 14$

29. $8 = 4(r + 4)$

30. $6(n + 5) = 66$

31. $3(3m - 2) = 2(3m + 3)$

32. $6(3y + 1) - 30 = 3(2y - 4)$

33. $\frac{2}{3} + \frac{1}{6}m = \frac{5}{6}m + \frac{1}{3}$

34. Was the equation solved correctly?
If not, describe what steps were performed incorrectly AND solve it correctly.

$$2(g + 5) = 22$$

$$2(g + 5) = 22$$

$$2g + 5 = 22$$

$$2g + 5 - 5 = 22 - 5$$

$$2g = 17$$