<u>**Solve and check each equation. Show your work.**</u>

1. $4a = 12$

2. $-5 = \dfrac{p}{-4}$

3. $b - 4 = 15$

4. $\dfrac{g}{8} = -12$

5. $0.7 - 1.5x = 1.9$

6. $\dfrac{m}{-5} + 6 = 31$

7. $13 = 4 - y$

8. $-4 = 5n + 6$

9. $23 = -13 + 2w$

10. $6 = -12 + \dfrac{h}{-7}$

11. $9x - 8 = 10$

12. $\dfrac{b + 4}{2} = -17$

13. $\dfrac{z - 7}{5} = -3$

14. $-9w + 5 = 23$

15. $-10 = \dfrac{17 + m}{4}$

16. $\dfrac{2}{7}k + 2 = -1$

17. $\dfrac{3}{4}x + 3 = -5$

18. $-j = 25$

19. $f - -23 = 29$

20. $-7 + x = 13$

21. $-\dfrac{3}{5}x - 2 = 8$

22. **Jessica solved the equation $2x - 3 = 11$ and got $x = 7$ as her answer. Check her answer and make sure that it works. If it doesn't work, solve for the correct answer.**

23. **Sam solved the equation $6 + 3y = 18$ and got $y = 0$ as his answer. Check his answer and make sure that it works. If it doesn't work, solve for the correct answer.**

BONUS!!! What mistake did Sam likely make?

Simplify.

24. $8 \cdot \dfrac{3}{4}$

25. $\dfrac{7}{9} \cdot -\dfrac{12}{7}$

26. $-\dfrac{9}{5} \cdot -\dfrac{1}{4}$

27. $\dfrac{1}{8} \div \dfrac{3}{4}$

28. $\dfrac{-13}{9} \div \dfrac{3}{7}$

29. $-1\dfrac{4}{5} \cdot -\dfrac{1}{2}$