

Name: _____

Period: _____ Date: _____

Solving Absolute Value Equations – Two Steps

Section I. Solve for the variable if possible

1. $|2x - 8| = 10$

2. $|13 - y| = 21$

3. $|4j + 3| = -11$

4. $\left| \frac{w-17}{3} \right| = 7$

5. $\left| \frac{d}{7} + 3 \right| = 8$

6. $|3k + 9| = 27$

7. $\left| \frac{g}{5} + 10 \right| = 4$

8. $\left| \frac{7+a}{6} \right| = 8$

9. $\left| \frac{b}{-9} + 8 \right| = 15$

10. $|2(7 - f)| = 10$

11. $|2m - 8| = 14$

12. $|-4h + 24| = 16$

13. $3|2j - 8| = 12$

14. $|2q| - 5 = 17$

15. $-9|g - 12| = -63$

16. $-6|y + 22| = 63$

17. $|m - 14| + 17 = 35$

18. $|3a + 12| - 5 = -2$

19. $|4d + 20| = 28$

20. $\frac{|8p|}{2} - 32 = -40$

21. $\frac{1}{2}|x + 18| = 26$

22. $-5\left|\frac{m}{4}\right| - 15 = 35$

23. $8\left|\frac{y}{3}\right| - 20 = -56$

24. $-6|x + 14| = -42$