

Trig 6-4 Solving Absolute Value Inequalities

Name: _____

Time Start: _____ Finish: _____ Total Time = _____

Solve.

1. $|x-4| > 8$

2. $|x+3| > 1$

3. $|x-1| < 5$

4. $|2x-1| < 3$

5. $|x+10| > 8$

6. $|2x+3| > 1$

7. $|3x-1| < 8$

8. $|2x+11| < 7$

9. $|5x-1| < -1$

10. $|3x+3| > -3$

SAT Questions

- _____ 11. The ratio of Sue's age to Bob's age is 3 to 7. The ratio of Sue's age to Joe's age is 4 to 9. The ratio of Bob's age to Joe's age is
- A. 28 to 27
 - B. 7 to 9
 - C. 27 to 28
 - D. 10 to 13
 - E. 13 to 10

- _____ 12. For how many two-digit positive numbers will tripling the tens digit give us a two-digit number that is triple the original number?
- A. None B. One C. Two D. Three E. Four

- _____ 13. If $\frac{4}{v} + w = 6$ and $v \neq 0$, which of the following expresses v in terms of w ?
- A. $\frac{4}{6-w}$
 - B. $\frac{w}{6-w}$
 - C. $\frac{w}{4-w}$
 - D. $\frac{w-6}{w}$
 - E. $\frac{w-2}{4}$