

Algebra 1
Practice Quiz 2.5-2.7

NAME _____

Evaluate each expression if $a = 3$ and $b = -2$. (2 Points)

1. $|a - 5| + 3$

2. $|b - 5| - 6$

1. _____

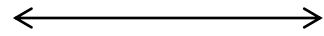
2. _____

Solve each equation. Then graph the solution set. (2 Points)

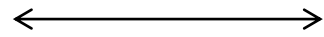
3. $|x - 3| = 8$

4. $|x + 6| = 7$

3. _____



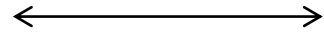
4. _____



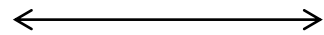
5. $|x + 9| = 12$

6. $|x - 4| = 13$

5. _____



6. _____



7. _____

8. _____

Determine whether each pair of ratios are equivalent ratios. Write *yes* or *no*. (2 Points)

7. $\frac{5}{8}, \frac{25}{40}$

8. $\frac{7}{10}, \frac{51}{64}$

Points(16) _____

Solve each proportion. (2 Points)

9. $\frac{3}{x} = \frac{4}{12}$

10. $\frac{6}{3} = \frac{14}{x}$

11. $\frac{x}{16} = \frac{6}{4}$

12. $\frac{5}{3} = \frac{x}{12}$

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

State whether each percent of change is a percent of *increase* or *decrease*. Then find each percent of change. (2 Points)

13. original: 32
new: 24

14. original: 48
new: 55

Find the total price of each item. (2 Points)

15. clothes: \$95
tax: 6%

16. books: \$51
tax: 5%

Find the discounted price of each item. (2 Points)

17. x-box game: \$120
discount: 20%

18. radio: \$89
discount: 25%

Points (20) _____