

Directions: Answer each of the following questions to the best of your ability. Show all work necessary to complete it. Place your answers in the blanks to the right.

Simplify

1. $\frac{8}{15} \times \frac{3}{4}$

6. $\frac{15 + 6 \div 3}{12 - 6 \times 5}$

1. _____

2. $5\frac{3}{5} \times 2\frac{1}{4}$

7. $-5(3a + 2b) - 2(4a - b)$

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

3. $2\frac{3}{4} + 4\frac{2}{3}$

8. $\frac{3(7-9)}{-3(-5) - 2[8 - (-1)]}$

10. _____

11. _____ / _____

12. _____

4. $7\frac{2}{3} - 2\frac{1}{3}$

9. $6x^2 - 2x - 4(3x^2 - 4) + 8x$

5. $[|9 - 12| + (-4)] - (-7)$

10. Convert the following $\frac{8}{9}$ into a decimal to the nearest hundredth and a percent.

Find the following quantities

11. $\frac{b^2 - 2a^2 + 1}{2(a - b)}$ $a = 4; b = 3$

12. $\frac{7a + 2b + 1}{-4|b + a|}$ $a = -3; b = 2$

Introductory Algebra

Name: _____

Solve the following

13. $3 - 2(x - 3) = 5 + (x + 2)$

16. If a number is added to -7, the result is 3 more than twice the number. Find the number.

14. $-\frac{3}{4}x = -6$

17. The formula for the area of a triangle is $A = \frac{1}{2}bh$. If $b = 8$ and $A = 24$, find h

15. $-5(3x - 1) + 2 = -3(4x - 1) - 3x$

18. 8% of what number is 20

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

Solve the following and graph the answer on a number line

19. $-8x + 3 \geq 27$

20. $4 - 3(x + 3) < 8x + 3(4-x) - 1$

19. _____

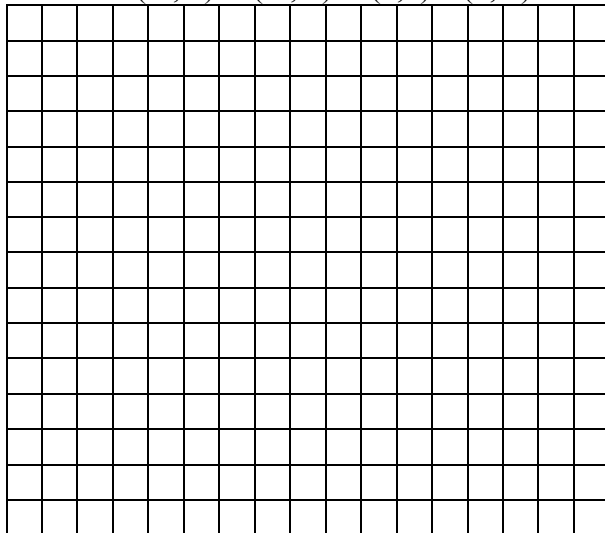
20. _____

21. _See Graph_____

22. _See Graph_____

21. Plot the following points on the graph and draw a line from AtoB, BtoC etc.

A (-5, 3) B (-3, 0) C(4,1) D(6, 5)



22. Graph the following equation $y = 2x + 5$