

Simplify the following problems and show your work! (Don't just use a calculator!)

1. $\frac{7}{12} - \frac{13}{84} =$

2. $\frac{17}{8} + \frac{17}{24} =$

3. 8% of what number is 12?

4. What is 13% of 562?

5. What % of 250 is 100?

6. $16 - (7 - 13) + 5 \cdot 2 - 3 =$

7. Put in slope intercept form

$$3x - 5y = 15$$

8. a. List a point in quadrant II.

b. List a point on the x -axis.

c. List a point in quadrant III.

d. List a point on the y -axis.

9. During a 30 minute lunch, 72 bottles of water were purchased from a drink machine. What is the rate at which water bottles were being purchased?

Write the equation that represents each situation:

10. An appliance repairman charges a first hour fee of \$40 and an hourly rate of \$55 per hour.

11. A car rental agency charges \$.05 a mile along with a daily rate of \$25 for a midsize car.

Find the slope of a line passing through the following two points:

12. (3, 2) and (-5, 9)

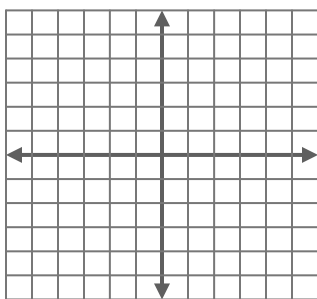
13. (-9, 6) and (3, 6)

14. (-7, 4) and (8, -2)

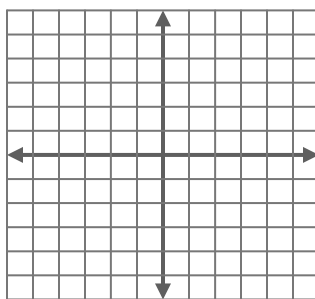
15. (3, -8) and (3, -2)

Draw the graph of each equation:

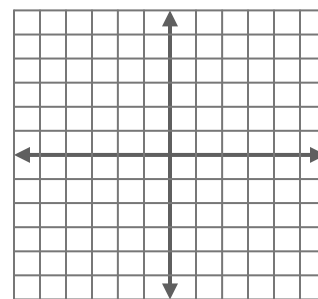
16. $y = -\frac{2}{3}x + 4$



17. $y = -x - 1$



18. $y = 3x - 5$

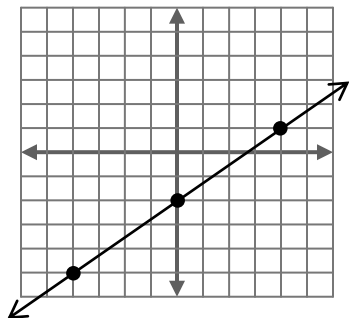


Write the equation of each line described in slope intercept form:

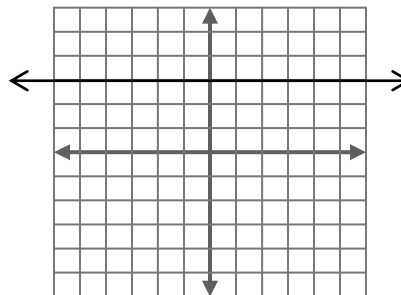
19. slope -3 and point (5, -2)

20. passing through (2, 1) & (-3, -9)

21.



22.



23. In the morning, the temperature on your outdoor thermometer was 67° . Over a 6-hour period the temperature increased 2° per hour. Write an equation that represents the situation and state the starting point and slope values.