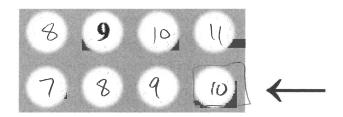
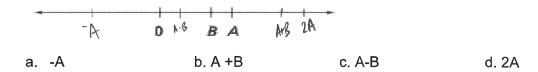


1. Below is a piece of an addition table. Determine the missing number.



2. Locate each of the following points on a number line similar to the one below. Make sure you **plot** your points!



3. In the list below, the numbers increase by the same amount each time. Fill in the blanks of the list.

a. b. 0,
$$\frac{1}{12}$$
, $\frac{1}{6}$, $\frac{1}{4}$, $\frac{1}{3}$

4. Fill in the blank with a number that makes the equation true.

$$4\left(\frac{1}{2} + \Box\right) = 8$$

$$\Box = \left(\frac{1}{2} \text{ or } \frac{9}{2}\right)$$

5. Find the missing number.

$$\Box \cdot 6 = \frac{6}{5}$$

$$\Box = \frac{1}{5}$$

6.
$$36(\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{9})$$

$$|8 + |\lambda + 9 + 4|$$

7. Describe how you can use backtracking to solve the equation $\frac{x-750}{150}$ = 167. Describe the steps you perform without solving the equation.

8. Solve the equation below.
$$9(x+2)-3(4x+2)=x-2(11+x)$$

$$9x+18-12x-6=x-22-2x$$

$$-3x+12=-x-22$$
9. Write the resulting equation when you do the basic move of dividing by two to the equation

2x-4=26.

$$(X-2=13)$$

10. Consider the equation 3x+2y=15. Solve for y.

$$\frac{3}{2} = \frac{3}{2}$$
 $\frac{3}{2} = \frac{3}{2}$
 $y = \frac{15-3}{2}$ or $y = \frac{15}{2} - \frac{3}{2}$

11. Find the solution/solutions for |4x + 7| = 5

$$4x+7=5$$
 $7-7$
 $4x+7=-5$
 $7-7$
 $4x=-12$
 $4x=-12$
 $4x=-3$

12. Find the distance between the points (-4,2) and (4,-4).

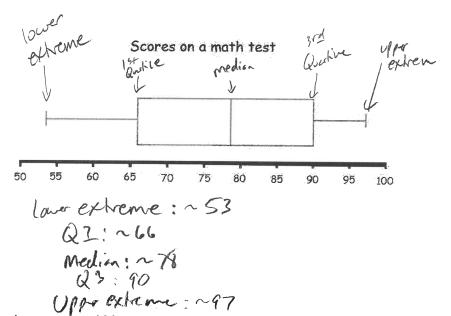
$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$d = \sqrt{(y_1 - (y_1))^2 + (-y_2)^2}$$

$$d = \sqrt{(y_1 + y_1)^2 + (-y_1 - y_2)^2}$$

$$d = \sqrt{(y_1 + y_2)^2}$$

13. Using the box and whisker plot below, find the lower extreme, first quartile(lower quartile) median, third quartile(upper quartile), and upper extreme.



14. In a survey, 100 people were asked, "Do you know how to ski?" The table breaks down the responses by age group: less than 30 years old, between 30 and 50 years old, and over 50 years old. Use the table to answer part a and b.

a. What percentage of people older than 50 said they know how to ski? $\frac{8}{20} = \frac{40}{100} = 40\%$

b. What percent of the people asked are younger than 50?

	Yes	No	
< 30	32	18	50
30-50	15	15	30
> 50	8	12	20
	55	45	100

15. Find two points that satisfy the equation 3x + y = 9. Pick x-values between -3 and 3.

	1 3
- 3	18
- 2	15
-1	12
0	19
1	6
2	3
3	0

16. Write the equation of the horizontal line that passes through (7,-5).

17. How would the graph of y-2= \sqrt{x} be different from y= \sqrt{x} .

It would be translated 2 units Up.

				200. C