Name_____

Summer work: Incoming 7th Graders

Complete the multiplication and division chart.

You must show your work.

MULTİPLİCATİON CHART

	1	2	3	4	5	6	7	8	9	10	11	12
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

Name : _____

Division Table

	÷ 1	÷ 2	÷ 3	÷ 4	÷ 5	÷ 6	÷ 7	÷ 8	÷ 9	÷ 10	÷ 11	÷ 12
= 1												
= 2												
= 3												
= 4												
= 5												
= 6												
= 7												
= 8												
= 9												
= 10												
= 11												
= 12												

1. Mrs. Hoskins is going to plant her new garden. She purchases 4 tomato plants for $2.95 each, a package of watermelon seeds for $1.87, and a jalapeno plant for $3.88. How much will Mrs. Hoskins spend on seeds and plants for her new garden?

2. Yogurt Express charges $0.17 per ounce for yogurt and toppings. Maria pays $2.04 for her yogurt/topping. How many ounces does Maria get?

3. A neighborhood trash pick-up comes every 5 days, while the recycling pick-up is every 8 days. After how many days will both the trash and recycling be picked up on the same day?

4. A length of rope measures 7 feet. Stephen would like to cut it into equal portions, each measuring 2/3 of a foot long. How many pieces will Stephen be able to cut from a rope?

5. What is the greatest common factor of 72 and 100?

6. Summer Snow Cones is planning to build a small snow cone shed that is walkable from three different schools. It's $\frac{7}{8}$ miles from North Junior High, 0.68 from South Elementary, and 5/6 miles from Westside Elementary. Order the schools from closest to furthest away from Summer Snow Cones.

7. What is the difference between an integer and a rational number?

8. What is the absolute value of 11-15?

9. A dog walking service offers a daily service and a weekly service. In the winter, the ratio of daily customers to weekly customers was 1:5. However, in the spring, more customers moved to the daily service because of the nicer weather. After the weather changed, the ratio was 4:2. If there were 125 weekly customers in the winter, then how many daily customers were there in the spring?

10. Protein bars come in a 4-pack box or a 12-pack box. The 4-pack costs $7.68 and the 12-pack costs $22.32. Create ratios to find the unit rate of each box of protein bars to find out which is the better value (cheaper).

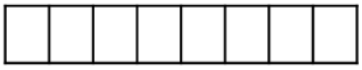
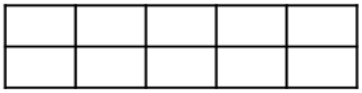
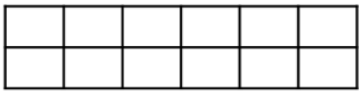
Each of the tables below represent equivalent ratios. Complete the missing values.

1	
	24
	42
10	
13	78

	8
5	
8	
	44
17	68

4	
	54
12	
14	126
	171

11.Complete the table below

MODEL	FRACTION	PERCENT	DECIMAL
		60%	
	$\frac{3}{4}$		
			0.3
	$1\frac{1}{2}$		
	$\frac{2}{3}$		

12.

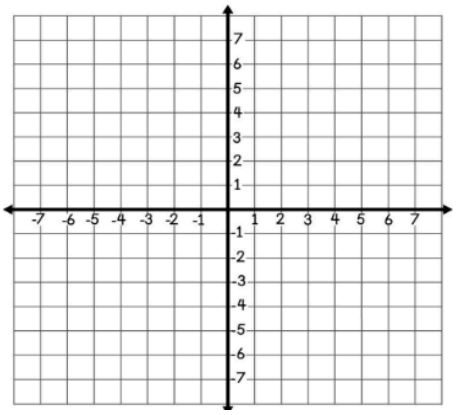
Use the coordinates of triangle QRS to answer a-b.

. Graph and reflect QRS over the y-axis. Record the coordinates of the new image below.

Q (-5, 3) R (-3, 7) S (-1, 3)

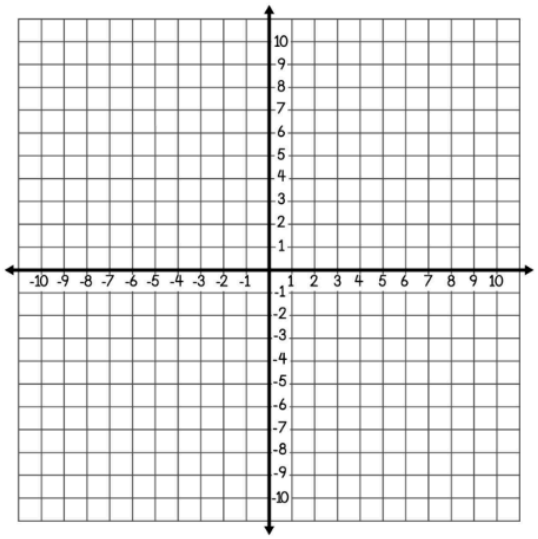
Q' _____ R' _____ S' _____

. Describe what happened to the x and y coordinates once they were reflected.



13. Complete the table and coordinate plane below

POINT 1	POINT 2	COORDINATE IN COMMON	DISTANCE
(-2, 6)	(-2, -1)		
(7, 9)	(-4, 9)		
(5, 6)		y-coordinate	9 units
	(-4, -1)	x-coordinate	6 units
		y-coordinate	15 units



14. Which set of expressions are NOT equivalent.

A. $8(3x + 7)$ and $8(3x) + 8(7)$
B. $3(8x + 7)$ and $11x + 10$
C. $7(3x + 8)$ and $7 \cdot 3x + 7 \cdot 8$
D. $3(7x + 8)$ and $21x + 24$

15. Alexis and her brother go to the sporting goods store to pick up gear for the football team. The number of footballs purchased is 6 less than twice the number of helmets purchased, h. Write an expression to represent the number of footballs purchased.

16. Identify the parts of the following expression.

$$3x + 2y + 11$$

How many terms:
Variables:
Coefficients:
Constant:
What operations separate terms:

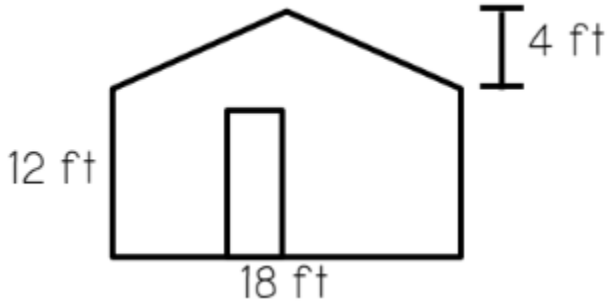
17. On his lunch break, Crosby purchases a piece of pizza and a salad. The total order of $9.25. If the pizza cost $6.30, then how much was the salad? Write and solve an equation.

18. Solve the following inequalities

$n + 5 \leq 16$

$7 \leq 2x$

19. The front of a home is being painted, not including the door. The door measures 9 ft by 2 ft. How many square feet will be painted?



20. Find the mean, median, mode and range of the data set below:

44, 46, 54, 61, 71, 81, 88, 86, 77, 65, 52, 43

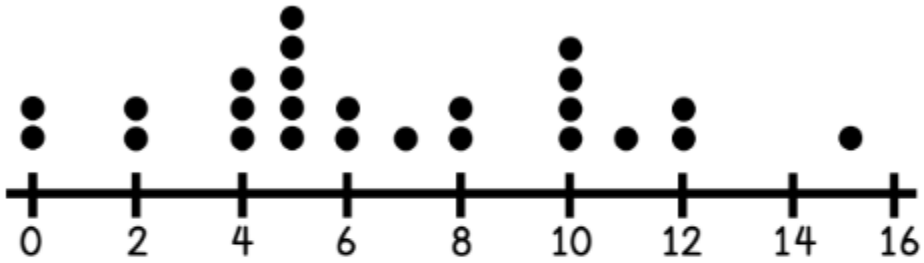
Mean:

Median:

Mode:

Range:

21. The dot plot below represents the number of dollars in allowance that students receive each week in Mrs. Jimenez's class. What is the median amount of allowance?



DOLLARS OF ALLOWANCE EACH WEEK

A. 5 B. 6

C. 7.5 D. 8

Student Reflection/Evaluation

1. On a scale of 1-10, 1 being the easiest, 10 being the hardest, how would you rate this packet?

2. What types of problems did you find the most difficult and why?

3. What types of problems did you find the easiest and why?

4. How long did it take you to complete the summer packet and how did you space it out (daily, weekly, all at once?)

5. List three goals for math this upcoming school year and how do you plan to accomplish those goals?
   1.

   2.

   3.

Parent Evaluation/Reflection

1. On a scale of 1-10, 1 being the easiest and 10 being the hardest, how difficult did you find this summer packet for your student?

2. On a scale of 1-10, 1 being no help and 10 being helped with almost every problem, how much help did you give your student with this summer packet?

3. What would you say was the most difficult part of the summer packet?

Student Name: _____

Parent/Guardian(s) names: _____

Parent/Guardian(s) emails: _____

Parent/Guardian(s) phone numbers: _____

Student and Parent/Guardian Declaration

I have completed the summer packet to the best of my ability and will turn it in by the last day of the first week of school.

_____ _____

Student Signature Parent Signature