Rising Sixth Graders

Here is the Math Summer Packet for the rising sixth graders. Please complete the packet and return during the first week of school in August.

Thank you, and have a nice summer.

The sixth grade teachers

Write the place and the value of the underlined digit.

1.) 7,6<u>2</u>4,310,900

2.) <u>3</u>38,957,200,10

3.) 512.0<u>2</u>

4.) 7.50<u>7</u>

What's My Sign?

Determine the mathematical operation needed to make the equation true. Write your answer in the space provided. Choose from addition, subtraction, multiplication or division.

1. 15 ◯ 11 ◯ 3 = 7

2. 22 ◯ 22 ◯ 4 = 4

3. 16 ◯ 40 ◯ 16 = 40

4. 32 ◯ 4 ◯ 3 = 24

5. 10 ◯ 5 ◯ 2 = 100

6. 64 ◯ 8 ◯ 5 = 40

7. 6 ◯ 7 ◯ 20 = 22

8. 12 ◯ 4 ◯ 8 = 56

9. 43 ◯ 21 ◯ 17 = 47

10. 9 ◯ 1 ◯ 8 = 72

11. 78 ◯ 6 ◯ 3 = 39

12. 10 ◯ 3 ◯ 3 = 10

13. 52 ◯ 2 ◯ 31 = 73

14. 2 ◯ 7 ◯ 3 = 42

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Spring Word Problems

Use addition, subtraction, multiplication or division to solve the following word problems.

1. Rachel planted 3 different varieties of flowers in her garden each day for 16 days. How many flowers did she plant in all?

_____

2. Allen blew bubbles outside for an hour. Dana blew bubbles for one-third of that time. How many minutes did Dana blow bubbles?

_____

3. Craig bought 48 strawberries, 31 blueberries and 26 apricots at the farmer's market. How many fruits did Craig buy in all?

_____

4. There are 91 days in spring. If it rains for 24 of those days, how many days will it be sunny?

_____

5. Tammy, Wendy and Marie are having a picnic at the park. If each girl has brought 4 foods to eat, how many foods do they have all together?

_____

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Composition Books	$ 1.12
Notebooks	$ 2.53
Pens	$ 0.75
Highlighter	$ 2.00

Mary Ann needed some supplies for school. Exactly how much money does she need to buy 3 composition books, one notebook, and five pens?

Composition Books	$ 1.12
Notebooks	$ 2.53
Pens	$ 0.75
Highlighter	$ 2.00

Mary Ann needed some supplies for school. About how much money does she need to buy one composition book, three notebooks, and one highlighter?

Adding/Subtracting Decimals to Thousandths (A)

Calculate each sum or difference.

$2.453 + 1.120 =$

$8.041 + 1.819 =$

$7.862 + 5.255 =$

$9.241 - 4.521 =$

$6.590 - 5.808 =$

$7.611 - 2.987 =$

$6.730 - 6.090 =$

$1.545 - 1.409 =$

$3.966 + 2.279 =$

$3.360 - 1.679 =$

$1.944 + 1.161 =$

$7.112 + 5.841 =$

$5.242 + 2.876 =$

$8.708 + 6.689 =$

$4.440 + 1.297 =$

$6.290 + 1.989 =$

$4.293 - 2.242 =$

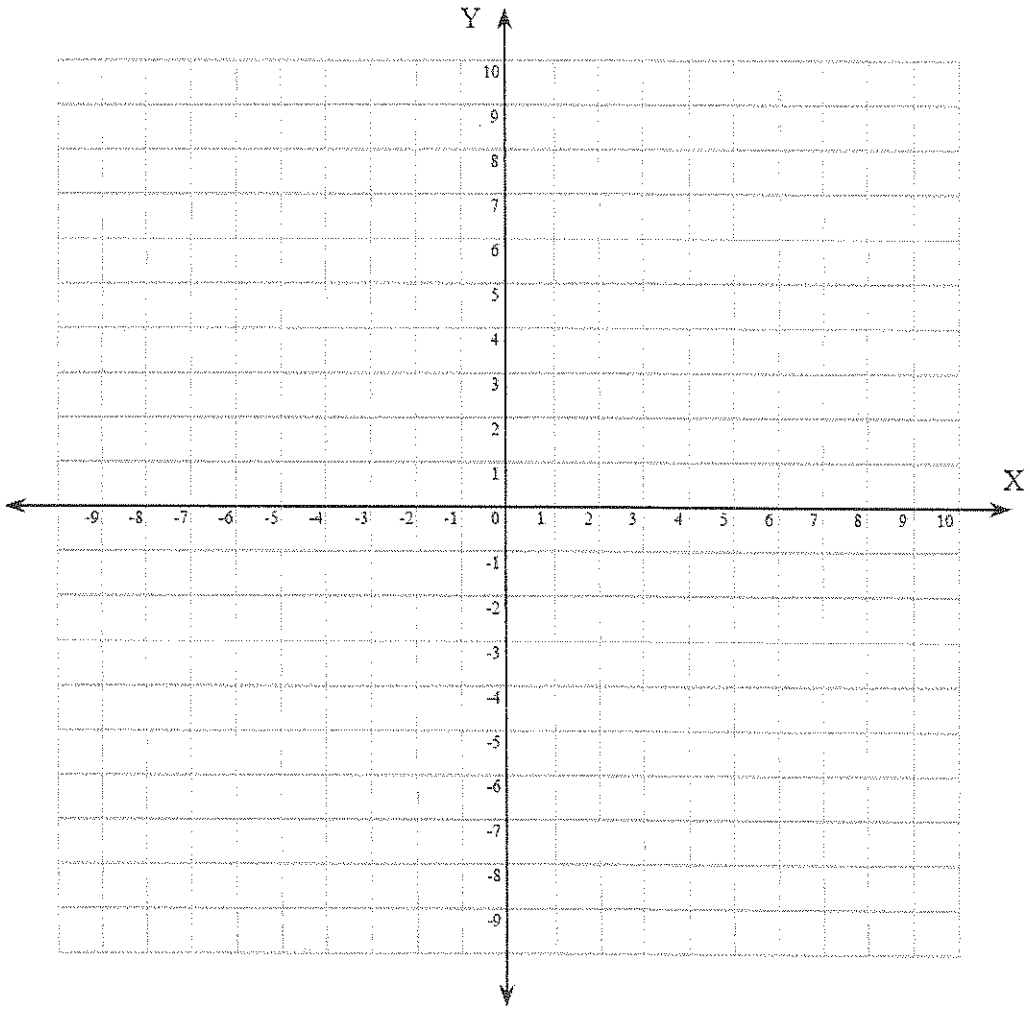
$5.928 - 1.808 =$

$9.280 - 4.066 =$

$4.962 + 2.235 =$

Name _____ Date _____

Graph and label each point on the coordinate plane.



A	(-7, 10)	F	(-8, -3)
B	(6, -6)	G	(7, -1)
C	(-2, 6)	H	(3, -10)
D	(-1, -9)	I	(2, -5)
E	(-9, 5)	J	(1, 9)

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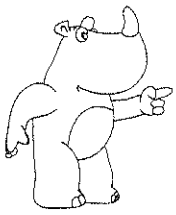
Finding the Average: Mean, Median, and Mode

In statistics, there are three kinds of averages: mean, median, and mode.



-MEAN: The mean of a group of numbers is the average of the numbers.

-MEDIAN: The median of a group of numbers is the number that is exactly in the middle when the numbers are arranged numerically. Note: For even sets of numbers, take the average of the middle two numbers.

-MODE: The mode of a group of numbers is the number that appears most often.

Example

Soccer Goals
5 12 19 11 15 32 18 5 3

Before you do any computing, you should always write the numbers in numerical order, from smallest to largest:

3 5 5 11 12 15 18 19 32

MEAN: Add all the numbers together (3+5+5+11+12+15+18+19+29=117) then divide (117) by the number of numbers added together (9), so 117 ÷ 9 = 13.

MEDIAN: In this example, the number in the middle is 12.

MODE: In this example, the number that reoccurs the most is 5.

For each problem below, find the **mean**, **median**, and **mode**.

Basketball Points
11 15 16 16 21 5 9

1. Mean: _____

Median: _____

Mode: _____

Touchdowns
10 7 9 15 14 12 11 9

2. Mean: _____

Median: _____

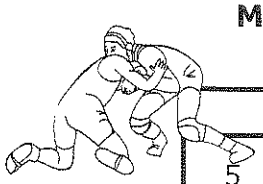
Mode: _____

Golf Scores
61 68 75 72 68 79

3. Mean: _____

Median: _____

Mode: _____



Wrestling Wins
5 7 13 24 16 22 13 7 6

4. Mean: _____

Median: _____

Mode: _____

Boxing Wins
24 16 23 16 15 35 19

5. Mean: _____

Median: _____

Mode: _____

Volleyball Wins
7 14 11 12 11 20 8 5 10

6. Mean: _____

Median: _____

Mode: _____

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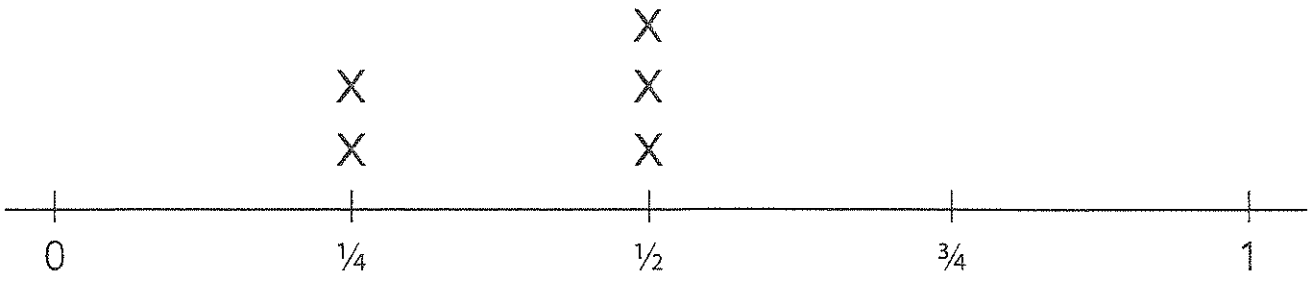
Donut Data

Name:_____ Date:_____

Solve the problems below using the data and line plots.



1. On Tuesday, Sam and Liz each bought ¼ pound of donuts each. Three other customers bought ½ pound of donuts each. How many pounds of donuts did the customers buy in all? _____

2. Four more customers came into the shop and bought ¾ pound of donuts each. Place X's on the line plot to show this information. Calculate the total number of pounds that all of the customers bought._____

Use the following data set to create your own line plot below.

Customers	Pounds Bought
5	¼
2	½
1	¾

_____

3. How many pounds of donuts did the customers buy on Wednesday?

_____

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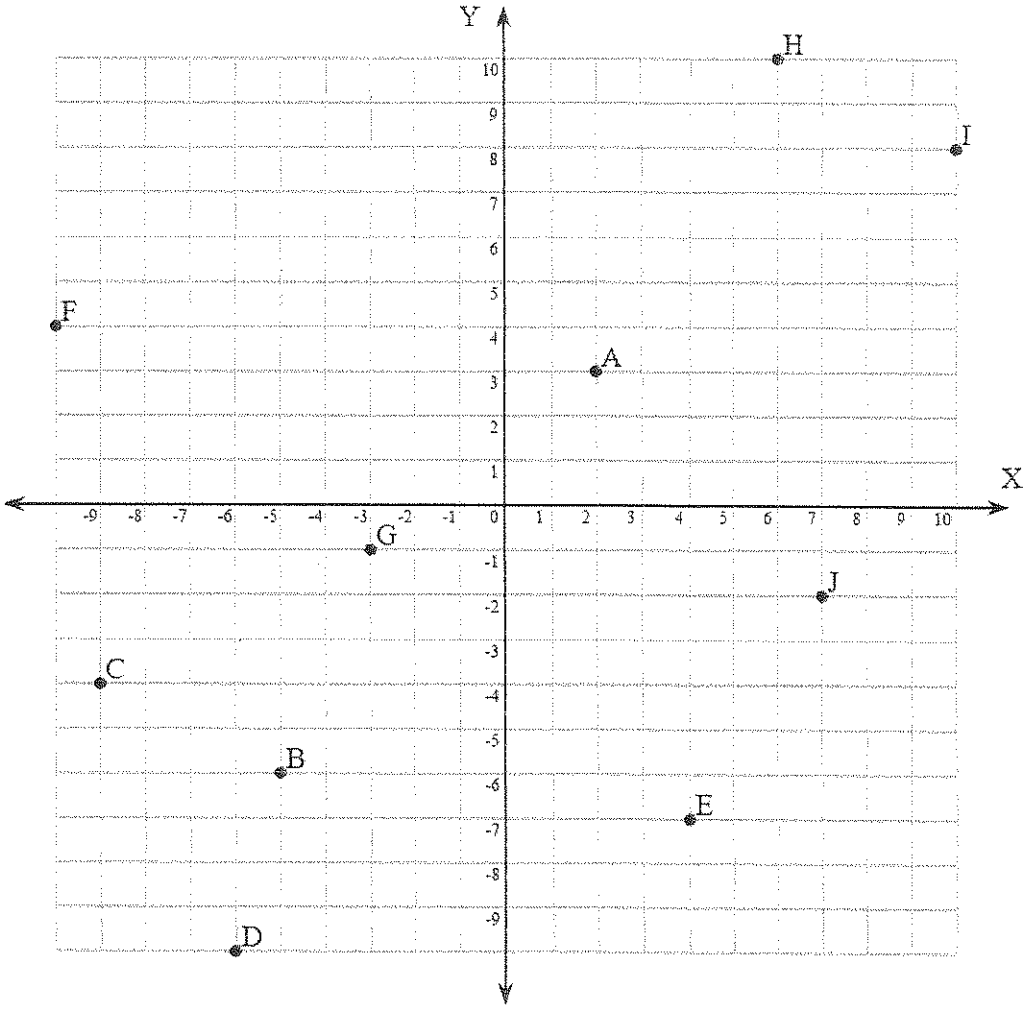
Name _____ Date _____

Write the coordinates of each labeled point.



A _____ F _____

B _____ G _____

C _____ H _____

D _____ I _____

E _____ J _____

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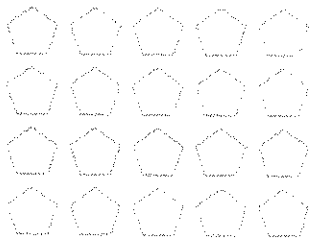
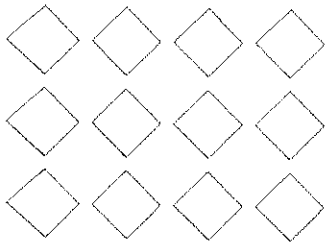
Coloring Fractions (A)

Color each group of shapes to represent each fraction.

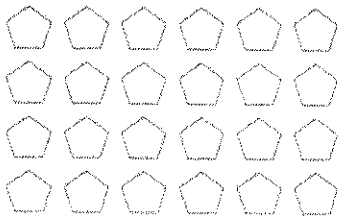
1. $\frac{1}{4}$



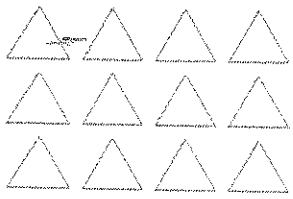
2. $\frac{1}{2}$



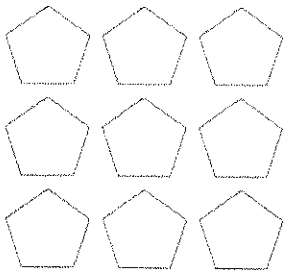
3. $\frac{2}{3}$



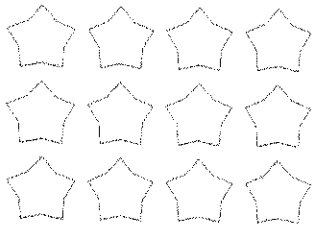
4. $\frac{3}{4}$



5. $\frac{1}{3}$



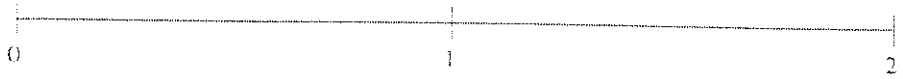
6. $\frac{1}{3}$



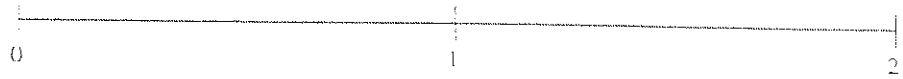
Ordering Fractions (A)

Order each set of fractions using the number line.

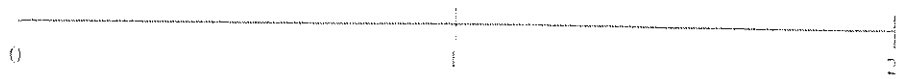
$\frac{1}{2}$, $\frac{4}{5}$, $\frac{1}{5}$, $1\frac{3}{10}$, $1\frac{9}{10}$



$1\frac{1}{2}$, $1\frac{4}{5}$, $\frac{2}{5}$, $\frac{7}{10}$, $1\frac{1}{5}$

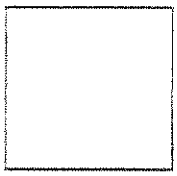


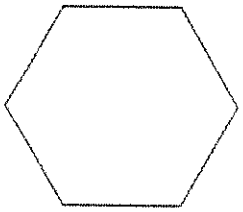
$\frac{1}{2}$, $\frac{4}{5}$, $\frac{1}{5}$, $1\frac{3}{5}$, $1\frac{1}{10}$

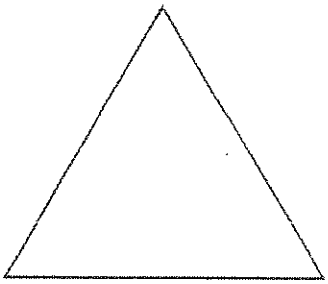


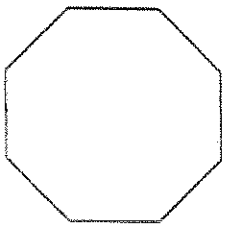
Identifying Shapes (A)

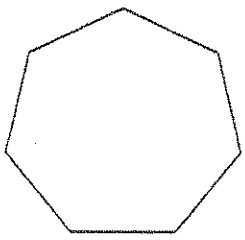
Identify each shape.

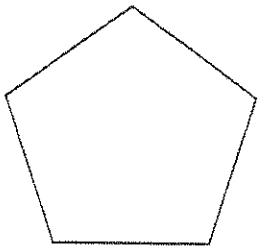
1. 

2. 

3. 

4. 

5. 

6. 

Comparing Integers (A)

Compare the pairs of integers using <, >, or =

2 ☐ 2	-13 ☐ 15	-2 ☐ 6	3 ☐ -12
-8 ☐ 8	3 ☐ -12	-7 ☐ -1	-11 ☐ 6
15 ☐ 14	-12 ☐ 4	7 ☐ 15	-11 ☐ 13
-14 ☐ -6	14 ☐ 10	-3 ☐ 6	-11 ☐ 7
4 ☐ 5	5 ☐ -9	-14 ☐ 4	7 ☐ -6
1 ☐ -10	15 ☐ 2	5 ☐ 0	9 ☐ -1
-14 ☐ -15	2 ☐ -3	12 ☐ 1	7 ☐ 9
4 ☐ -1	3 ☐ -7	15 ☐ 12	-6 ☐ 8
-12 ☐ -6	-3 ☐ -10	14 ☐ -15	-13 ☐ 11
2 ☐ -11	14 ☐ 13	2 ☐ -5	10 ☐ -9

13

MAGIC SQUARE

Each row, column, and diagonal in this square must add up to 24. You may use only numbers between 1 and 12. Not every number will be used, and you may use each number only once (6, 7, and 10 are already used).

	6	7
	10	

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