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ST. NICHOLAS of TOLENTINE
80-22 PARSONS BOULEVARD
JAMAICA, NEW YORK 11432

GRADE 6 - SCHOOL SUPPLIES LIST

Dear Parents/Guardians,

In order to help your child get off to a good start in September, please ensure that your child has the supplies listed below when school begins.

- 7 large notebooks (the black or green marble (speckled) ones that are sewn together) Pen and pencils (large packages)
- Pencil sharpener
- Combination metric and inch ruler
- 6 folders for loose leaf paper and papers and the child needs to keep
- 1 assignment pad
- 1 protractor
- 1 scientific calculator TI 36 x Pro
- 1 Dictionary and Thesaurus
- 1 package of Wet Ones, Handiwipes, etc. for cleaning hands before lunch
- 2 boxes of tissues
- 1 roll of paper towels
- 1 roll of scotch tape
- 1 package of loose leaf (wide rule)
- 1 ream/package of copy paper

**No spiral notebooks and No Trapper Keepers.

** All books should be covered with brown paper, paper book covers, or book socks (no contact paper).
Religion textbooks must be covered with brown paper or paper book covers (no book socks or contact paper).

For 6th Grade Book & Art Supply Fees: Art supply fee is $15 cash

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GRADE 6 – SUMMER READING & MATH

Dear Parents/Guardians,

All students are expected to continue building their reading and math skills throughout the summer. Daily independent reading will help reinforce important skills and comprehension. In addition, extra practice in math will help improve your child's problem solving abilities. During summer vacation, your child is expected to read two books from the list below. **One of the books is required reading for the summer**. When they return to school in September, they will be tested on the required book. Students will also be expected to complete the summer math assignment included this package. Each problem solving page should show your child's work and the answers to each problem. **The math packet will be collected when students return to school in September**.

Have a great summer!

Thank you,

Sixth Grade Teacher

Grade 6 Summer Reading List

Required Novel:

– *A Year Down Yonder* by Richard Peck

Recommended Novels (Choose One):

– *Rules* by Cynthia Lord

– *Bud, Not Buddy* by Christopher Paul Curtis

– *Criss Cross* by Lynne Rae Perkins

This list can also be found on our Class webpage at

http://www.sntschoolny.org/sixth-grade

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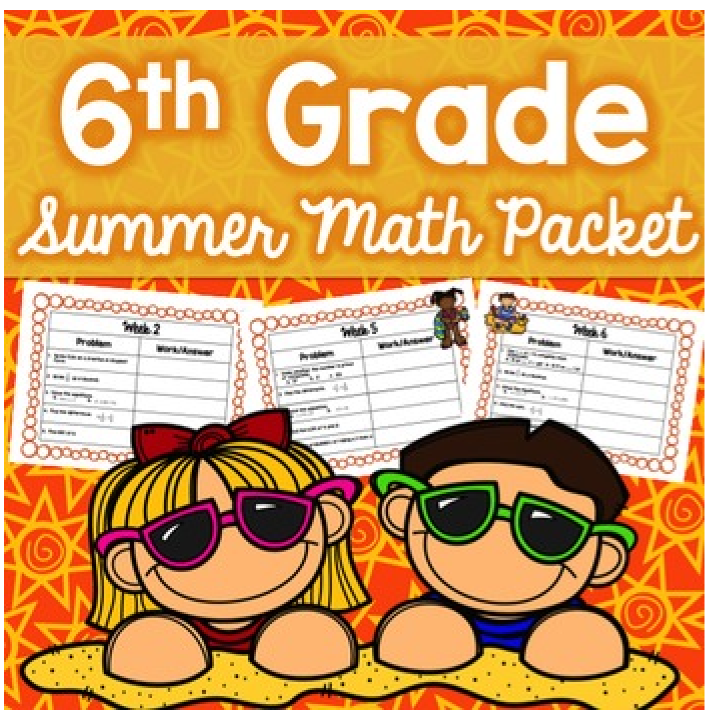
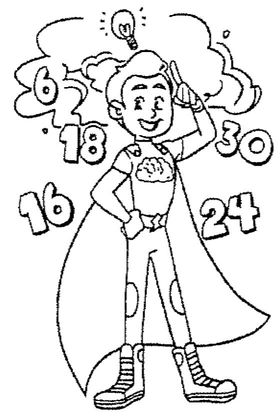
This summer packet is for students who will be entering the 6th Grade.

This packet should be completed prior to the start of school and will be COLLECTED during the first week of school.



Name: ______________________________

Multiples



A **multiple** is the product of a given whole number and another whole number.

1 x 6 = 6	2 x 6 = 12	3 x 6 = 18
4 x 6 = 24	5 x 6 = 30	6 x 6 = 36
6 x 7 = 42	6 x 8 = 48	6 x 9 = 54

and so on...

What are the first 6 multiples of 6? **6, 12, 18, 24, 30, and 36**

1. What are the first 4 multiples of 9? _____, _____, _____, and _____

2. Circle the numbers that are multiples of 7.
Cross out the numbers that are not multiples of 7.

1	7	14	17	21	27	35

3. Circle the numbers that are multiples of 8.
Cross out the numbers that are not multiples of 8.

38	40	45	49	64	72	81

4. Are multiples of 4 always even? Explain.

____

____

5. Are multiples of 3 always odd? Explain.

____

____

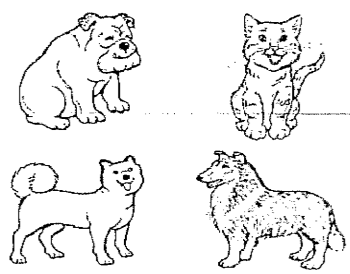
Name: ______________________

Ratio

Ratios are pairs of numbers that are used to compare two quantities.

Ratios can be written three ways - with the word *to*, with a colon, or as a fraction.

example: What is the ratio of dogs to cats?



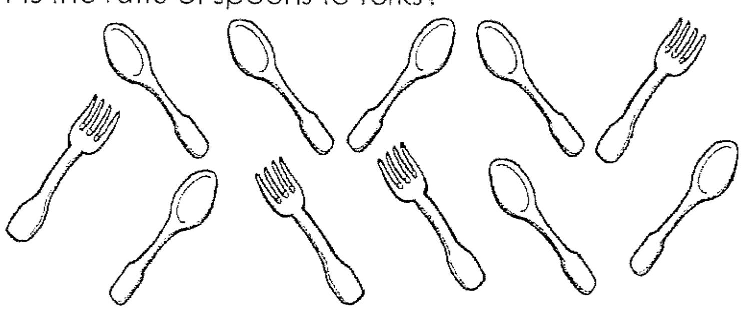
3 to 1

3:1

$\frac{3}{1}$

Write each ratio three ways.

1. What is the ratio of spoons to forks?



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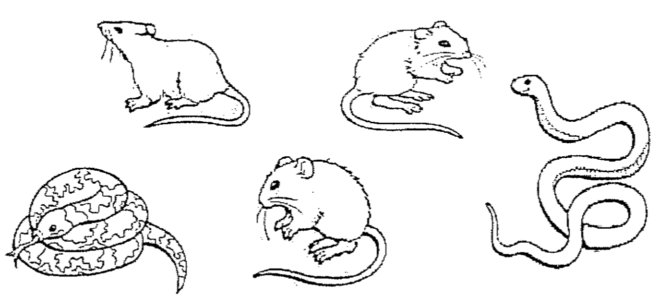
2. What is the ratio of snakes to mice?



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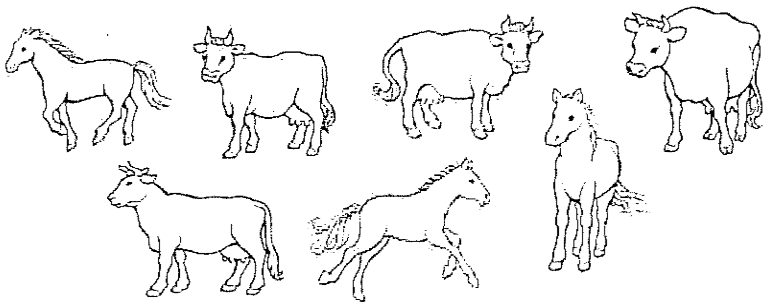
3. What is the ratio of cows to horses?



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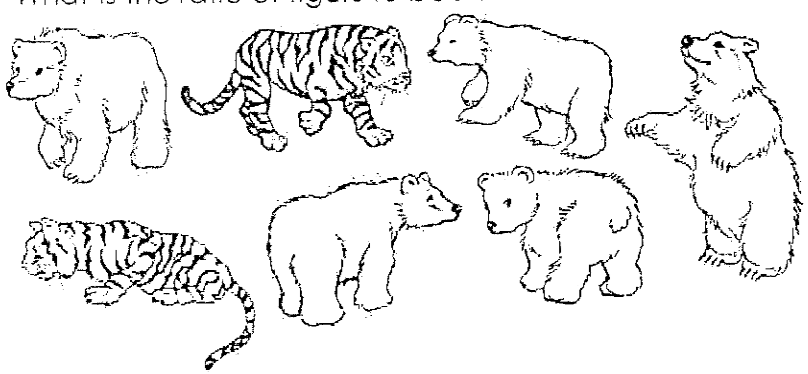
4. What is the ratio of tigers to bears?



____

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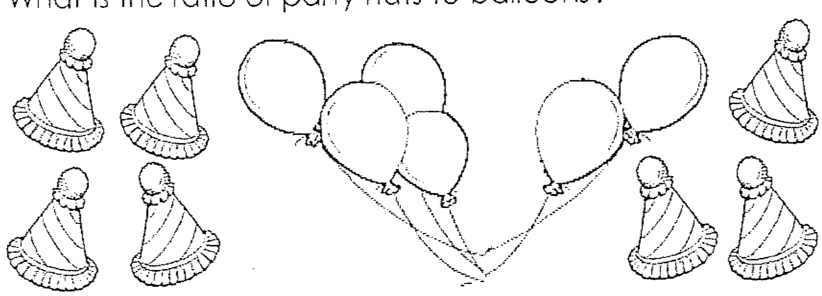
____

5. What is the ratio of party hats to balloons?



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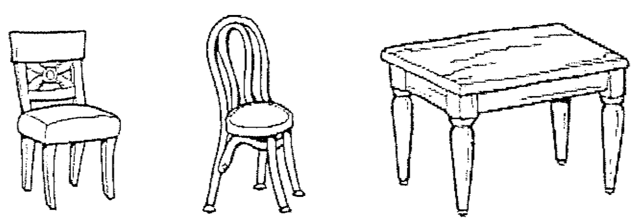
____

6. What is the ratio of tables to chairs?



____

____

____

Name: ______________________________

Multiplying Fractions

Step 1: Multiply the numerators. $\frac{3}{5} \times \frac{2}{3} = \frac{6}{}$

Step 2: Multiply the denominators. $\frac{3}{5} \times \frac{2}{3} = \frac{6}{15}$

Step 3: Simplify your answer if possible. $\frac{3}{5} \times \frac{2}{3} = \frac{6}{15} = \frac{2}{5}$

a. $\frac{7}{8} \times \frac{4}{9}$

b. $\frac{4}{5} \times \frac{1}{4}$

c. $\frac{2}{9} \times \frac{1}{7}$

d. $5 \times \frac{7}{8}$

e. $\frac{2}{3} \times \frac{5}{8}$

f. $\frac{3}{4} \times 8$

g. $\frac{2}{3} \times 9$

h. $\frac{3}{7} \times \frac{5}{9}$

i. $\frac{9}{10} \times \frac{5}{18}$

j. $\frac{2}{3} \times \frac{6}{7} \times \frac{3}{5}$

k. $7 \times \frac{2}{3} \times \frac{3}{4}$

Name: ______________________________

Decimal Multiplication

Rewrite each problem vertically and solve.

a. 3.7 x 0.4 = ______	**b.** 18.7 x 6 = ______	**c.** 81.9 x 0.5 = ______
d. 9.9 x 0.8 = ______	**e.** 7.12 x 3 = ______	**f.** 10.3 x 2 = ______
g. 7.11 x 9 = ______	**h.** 82 x 0.3 = ______	**i.** 4.2 x 0.7 = ______
j. 15.9 x 0.8 = ______	**k.** 5.55 x 5 = ______	**l.** 88 x 0.8 = ______

Name: ______________________________

Simplifying Fractions

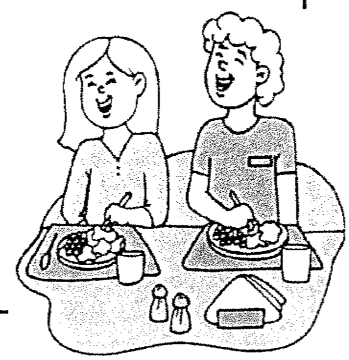
To simplify a fraction, divide the numerator and the denominator by the greatest common factor.

example: Simplify the fraction $\frac{18}{27}$

The greatest common factor of 18 and 27 is 9.

Divide the numerator and the denominator by 9.

$$\frac{18}{27} \div \frac{9}{9} = \frac{2}{3}$$



Simplify each fraction.

a. $\frac{4}{20} =$ b. $\frac{5}{10} =$ c. $\frac{14}{21} =$ d. $\frac{9}{15} =$

e. $\frac{16}{24} =$ f. $\frac{18}{48} =$ g. $\frac{16}{44} =$ h. $\frac{9}{21} =$

i. $\frac{25}{30} =$ j. $\frac{8}{22} =$ k. $\frac{12}{30} =$ l. $\frac{5}{20} =$

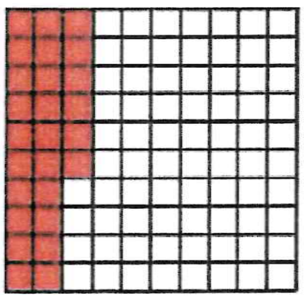
q. There are 36 students in Frank's class. 27 of them are buying lunch today. Write and simplify the fraction of students that are buying lunch.

Name: ______________________________

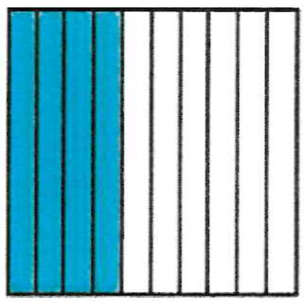
Decimals: Hundredths and Tenths

Write the decimal <u>and</u> the fraction of each shaded part.

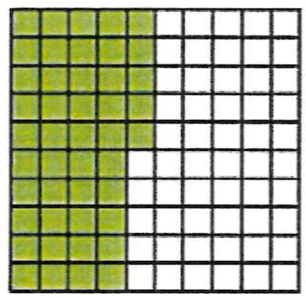
a.



b.

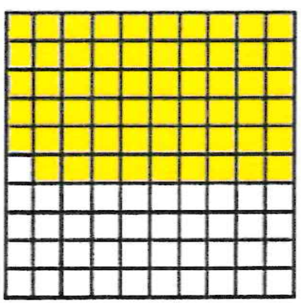


c.

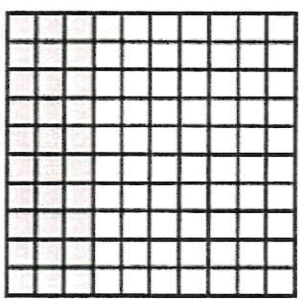


d.

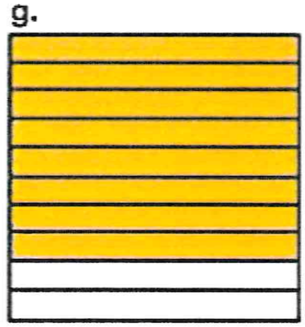
e.



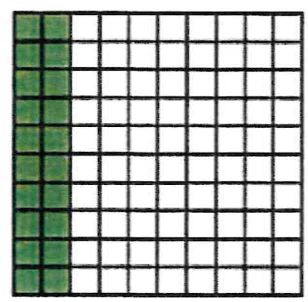
f.



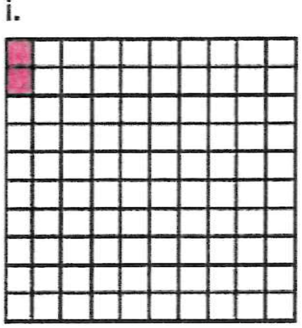
g.



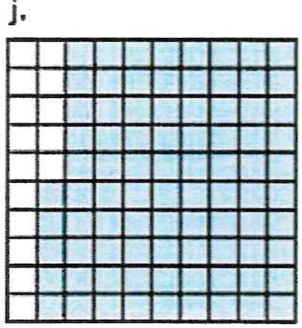
h.



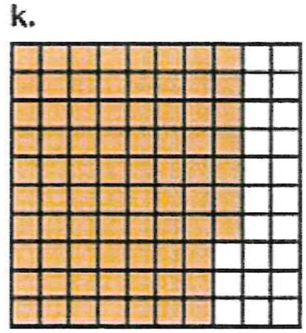
i.



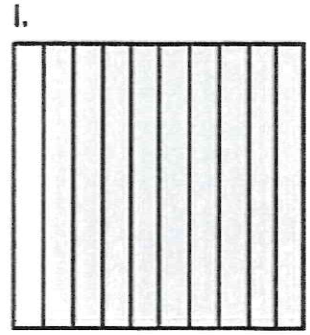
j.



k.



l.



Name:______________________________

Percents, Decimals, and Fractions

Cut out the fraction and decimal tiles at the bottom of the page. Glue them into the box next to the correct percent value.

6%		56%		8%	
60%		10%		80%	
40%		1%		88%	
4%		75%		9%	

[redacted]

$\frac{1}{100}$	0.08	$\frac{4}{10}$	0.6	$\frac{88}{100}$	0.75
$\frac{56}{100}$	$\frac{4}{100}$	0.8	$\frac{10}{100}$	0.06	$\frac{9}{100}$

Name: ______________________________ Single Variable

Introduction to Inequalities

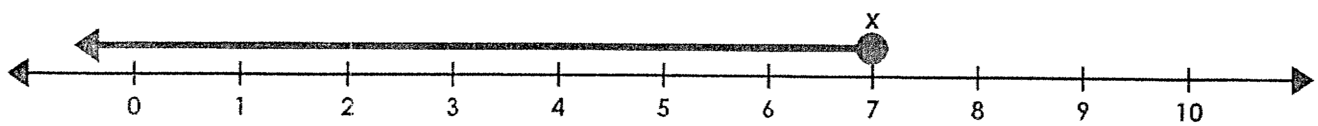
An inequality is a pair of expressions or numbers that are not equal.

You can use these signs to express an inequality:

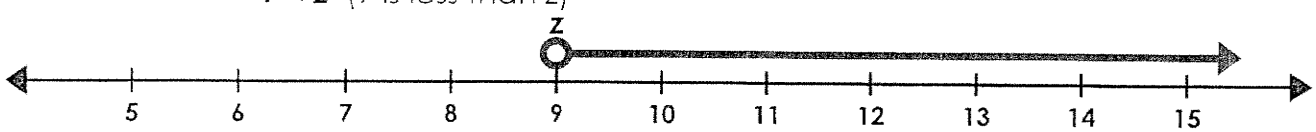
$>$	*greater than*	$\geq$	*greater than or equal to*
$<$	*less than*	$\leq$	*less than or equal to*

When you solve an inequality, you need to show all of the values that make the statement true. One way to do this is by graphing the inequality on a number line.

examples: **$x \leq 7$** (x is less than or equal to 7)



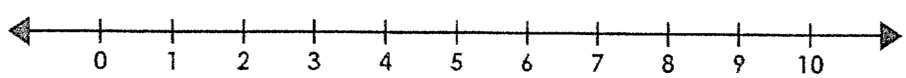
$9 < z$ (9 is less than z)



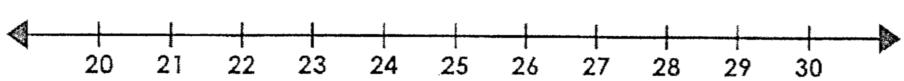
On an inequality graph, an **open circle** is used for ***greater than*** and ***less than***. A **filled circle** is used for ***greater than or equal to*** and ***less than or equal to***.

Write each inequality in words. Then graph each on the number line using a red colored pencil or crayon.

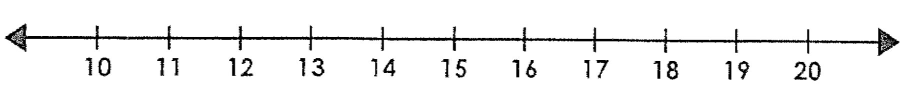
1. $a \geq 3$ word form: ______________________________



2. $25 > q$ word form: ______________________________



3. $t \leq 17$ word form: ______________________________



Name: ______________________

Averages

Here's how you can find the average, or mean, of a set of numbers.

Step 1: Find the sum of the numbers.
Step 2: Divide the sum by the number of addends.
The quotient is the average, or mean.

Find the average of these numbers: 12, 9, 9, 8, 12

Step 1: $12 + 9 + 9 + 8 + 12 = 50$
Step 2: $50 \div 5 = 10$

The average of the numbers is 10.

10 5 54

Find the average for each set of numbers.
Show your work and write your answer on the line.

a. 13, 13, 13, 17 avg: ________

b. 15, 20, 25, 30, 35 avg: ________

c. 10, 6, 6, 9, 13, 3, 2 avg: ________

d. $15, $11, $9, $13 avg: ________

ıme: ______________________________ Skill: Mode

Mode

When you look at a set a numbers, the mode is the number that appears the most. If a number does not appear more than once, there is no mode.

Find the mode of these numbers: 34, 33, 34, 34, 35, 36, 33, 34, 31

The number 33 is listed twice. The number 34 is listed four times. All other numbers appear only once.

The mode is 34.

Find the mode for each set of numbers. If there is no mode, write the word "none."

a. 21, 21, 22, 22, 22, 23, 23, 23, 23, 24

mode: ____________

b. 100, 100, 100, 93, 88, 88, 87, 88, 87, 88, 85

mode: ____________

c. 4, 1, 2, 3, 2, 4, 5, 6, 7, 8, 9, 2

mode: ____________

d. 256, 256, 64, 128, 128, 64, 32, 512, 128, 32

mode: ____________

e. 321, 213, 123, 231, 312, 132

mode: ____________

f. 6, 3, 8, 6, 6, 5, 8, 3

mode: ____________

g. 300, 400, 700, 400, 600, 100, 800, 200, 900

mode: ____________

h. 765, 657, 567, 756, 755, 675

mode: ____________

i. 467, 455, 467, 455, 467, 455, 467, 455, 467

mode: ____________

j. 1, 0, 0, 0, 1, 1, 0, 1, 1, 1, 0, 1, 0, 1, 0, 1, 1, 0, 0, 1

mode: ____________

k. 99, 98, 96, 99, 98, 99, 95, 96

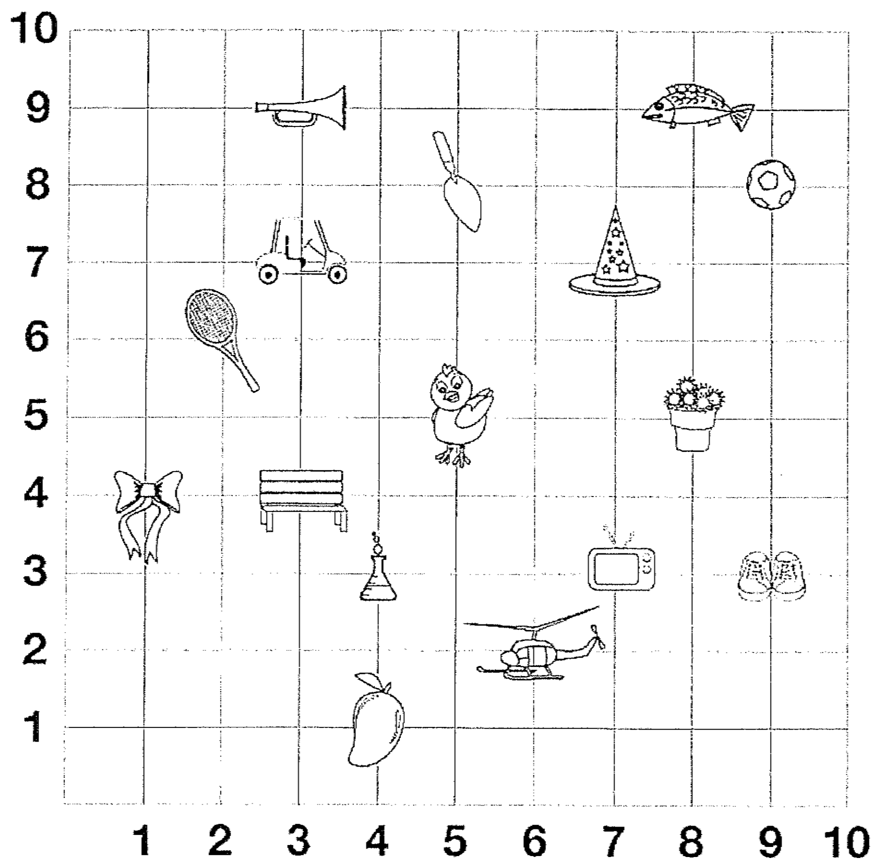
mode: ____________

l. 834, 438, 843, 483, 348, 384

mode: ____________

Name: ______________________________ Coordinate Plane & Ordered Pairs

Ordered Pairs



Write the ordered pair for each of the objects listed.

example: television - (7,3)

a. helicopter - ____________ **b.** shoes - ____________ **c.** pepper - ____________

d. wizard's hat - ____________ **e.** fish - ____________ **f.** golf cart - ____________

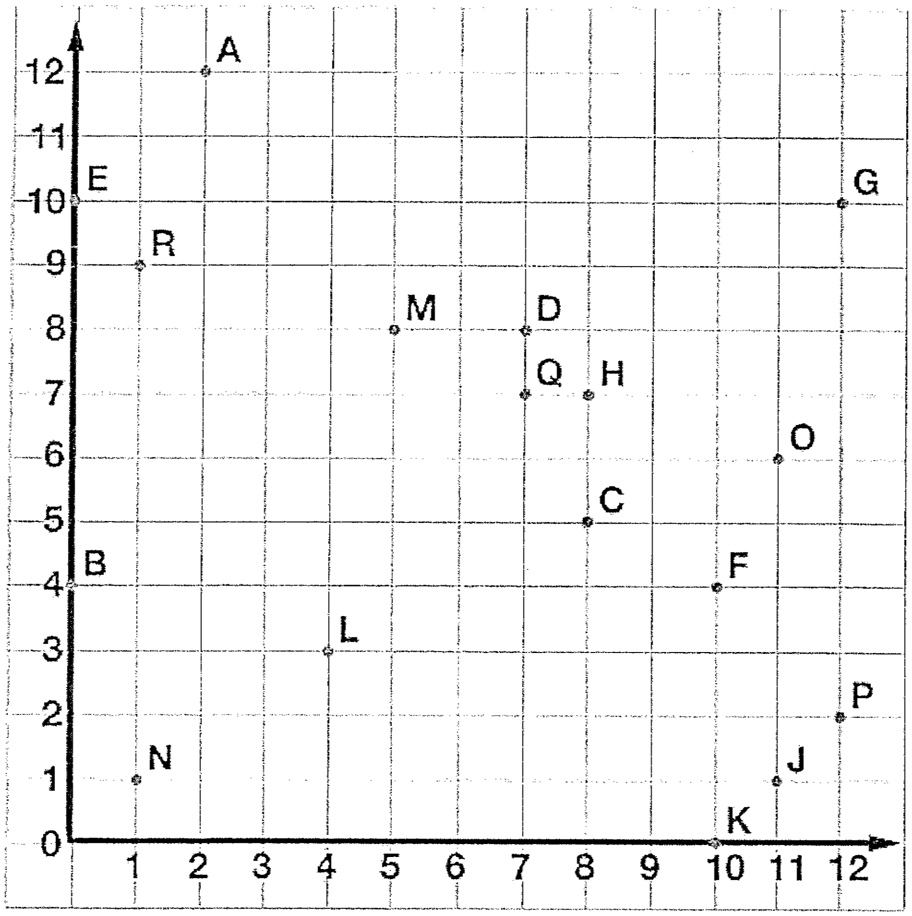
Tell which object is located at each point.

e. (3,4) - ______________ **f.** (2,6) - ______________ **g.** (1,4) - ______________

h. (5,5) - ______________ **i.** (9,8) - ______________ **j.** (3,9) - ______________

Name: ______________________

Ordered Pairs



Tell what point is located at each ordered pair.

1. (5,8) ______
2. (12,2) ______
3. (8,7) ______
4. (12,10) ______
5. (7,7) ______
6. (0,10) ______

Write the ordered pair for each given point.

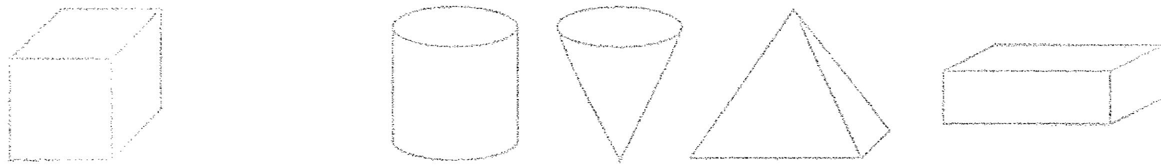
7. N ____________
8. L ____________
9. J ____________
10. A ____________
11. B ____________
12. E ____________

Plot the following points on the coordinate grid.

13. S (6,11)
14. T (3,5)
15. U (9,12)

Name: ______________________________

Solid Figures



Cube Sphere Cylinder Cone Pyramid Rectangular Prism

Write the name of the solid figure that each object looks like.