Extended Response Standard 4: Geometry Standard 7: Problem Solving

Question 4

Jada created the table below to show how she sorted some polygons. Study each category in the table.

Category 1	Category 2	Category 3
equilateral triangle	right triangle	square
square	square	rectangle
rhombus	rectangle	rhombus
		parallelogram

Describe what the polygons in each category have in common.
Category 1
Category 2
Category 3
Use words, numbers, or symbols to explain why some of the polygon are in more than one category. Give TWO different examples from the table.
1)
2)
Use words, numbers, or symbols to explain in which category Jada should place a trapezoid if it were added to the table.

Constructed Response Standard 2: Computation Standard 7: Problem Solving

Question 3

Tina	plays	in	а	softball	league.	Two	batting	average	records	are	shown
belov	Ν.										

League record: 0.308Team record: 0.260

Tina broke the team record this year. Tina's average is 0.017 HIGHER than the team record.

What is the difference between Tina's average and the league record?

Show All Work

Answer	
Tina will move into a new softball league next year. batting average record is 0.040 HIGHER than Tina's	
What is the new league's record?	

Answer	

Constructed Response Standard 1: Number Sense Standard 7: Problem Solving

Question 2

On the number line below, Anita is plotting the number of hours each person in her reading group read last week. The numbers represent the hours read.



How many hours did each person read?

Roy	hours
Mark	hours
Dee	hours
Cass	hours

Anita forgot to plot a point for the number of hours she read last week.

If the total number of hours read for the group is 23.75 hours, how many hours did Anita read?

On the second se	
Answer	hours
	1101113

Constructed Response Standard 5: Measurement Standard 7: Problem Solving

Question 1

For six months, Marvin has been saving money earned from chores. He earned a total of \$45 for babysitting, \$49 for yard work, and \$22 for doing laundry.

With his savings, Marvin wants to buy the following items:

• board game \$15.95 \$23.84

books

jeans

\$42,25

video game \$37.00

How much MORE money will Marvin need to buy all the items he wants?

Answer	\$	
AIISVVCI	D	

Constructed Response

Standard 1: Number Sense

Standard 7: Problem Solving

Question 1

Randall Elementary School has a reading contest every year. The number of pages each grade level read last year are listed below.

327,612

864,201

170,346

643,120

657,064

In the first row of the table, write the numbers in order from GREATEST to LEAST.

Show All Work

Number of Pages Read	Annual Control		panguna kecaman di menerupakan di Adria Asikur di Maka Sala	antico (granti sur vivido a Pra Proprio de Parti Sale
Grade Level	4th			

Use the clues below to match the grade level with the number of pages read. In the second row of the table, write the correct grade level under the number of pages read.

- Students in 4th grade read the most pages.
- Students in 2nd grade read more pages than students in 3rd grade.
- Students in 2nd grade read fewer pages than students in 5th grade.
- Students in 3rd grade read more pages than students in 1st grade.

Constructed Response Standard 2: Computation Standard 7: Problem Solving

Question 2

Curtis went fishing.

- He caught one bass that weighed 8.32 pounds.
- He caught one catfish that weighed 3.675 pounds.
- He caught another catfish that weighed 3.14 pounds.
- The last fish Curtis caught was a trout.

How many MORE pounds did the ONE bass weigh than the TWO catfish combined?

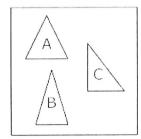
Answerp	ounds			
If the TOTAL weight of all how many pounds did the		was	18.5	pounds,
Show All Work				

Constructed Response Standard 4: Geometry Standard 7: Problem Solving

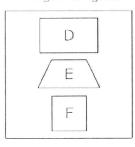
Question 3

Look at how the shapes below are classified.

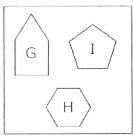
3	sides	and	only
	acute	ang	les



4 sides and 4 right angles



5 or 6 sides and only obtuse angles



On the lines below, list the letter of the shape that is INCORRECTLY classified in each group. Explain why it does not belong in that group.

Shape ____ Why ______
Shape ___ Why _____

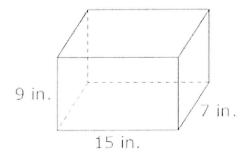
Which of the 3 shapes you listed WILL fit into a new group labeled "Polygons with only acute and right angles"?

Answer _____

Extended Response Standard 5: Measurement Standard 7: Problem Solving

Question 4

Janet has the flower box shown below.



Volume of rectangular prism =
$$lwh$$
 = length \times width \times height

She only has enough soil to fill 500 cubic inches of the box.

How much MORE soil, in cubic inches, does Janet need to fill her flower box?

Show All Work

Answer _____ cubic inches

Robert has a flower box that has the SAME volume as Janet's but DIFFERENT measurements for length, width, and height.

If the length of Robert's flower box is 21 inches, what are possible width and height measurements, in whole inches?

Length21	inches
Width	inches
Height	inches