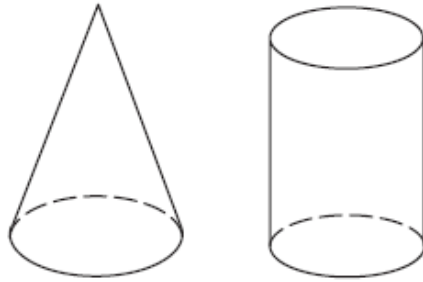


A cone and a cylinder are shown.



Give one way that a cone and a cylinder are alike.

Give one way that a cone and a cylinder are different.

Some fractions are less than one. Some fractions are equal to one. Some fractions are greater than one.

Write a fraction that is equal to one. _____

Use words, pictures or numbers to show or explain why your fraction is equal to one.

Reuben recorded the heights of 7 boys and 7 girls in his class in the table shown.

Height (in inches)	
Boys	Girls
47	49
50	50
51	52
53	55
53	56
55	56
58	58

Calculate the range, the median and the mode for the height of the boys and for the height of the girls.

Range:

Boys _____

Girls _____

Median:

Boys _____

Girls _____

Mode:

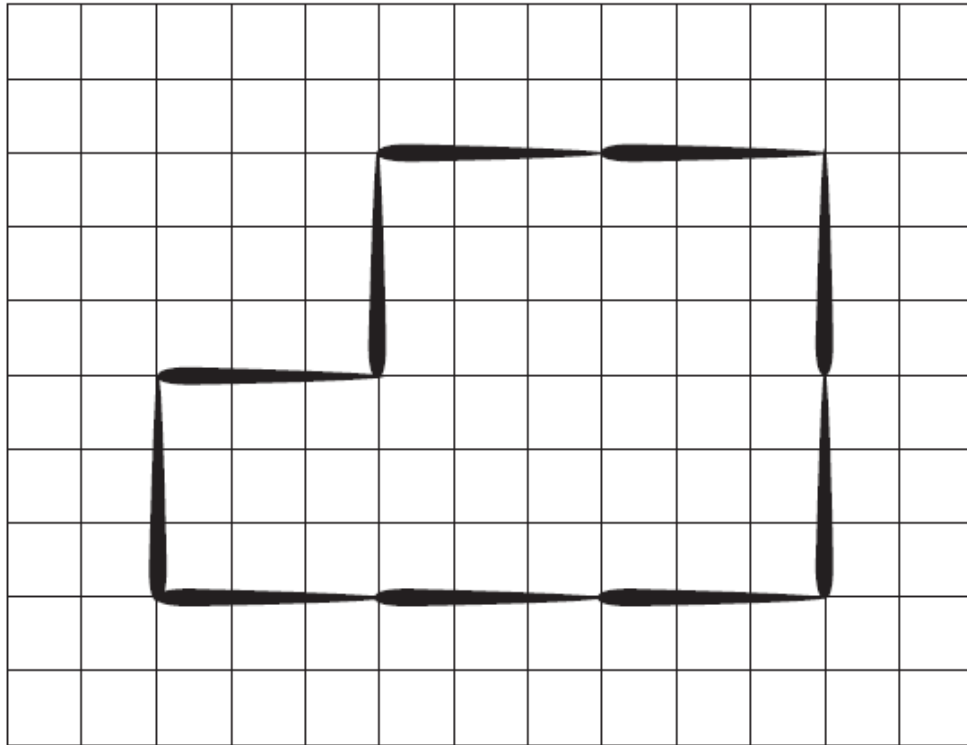
Boys _____

Girls _____

Use the range, median or mode to compare the heights of the boys and the girls and tell which group you think is taller.

Explain how you made your choice.

Randy made this shape with toothpicks.



Each  = 1 Toothpick = 3 inches

What is the perimeter of the shape in inches? _____

Describe how you found the length of the perimeter.

Casey made the pattern shown.

8, 19, 30, 41, _____, _____, _____

What are the next three numbers?

Describe the pattern.

A store sells rice in 3-pound and 5-pound bags. Jennie is responsible for packing 60 pounds of rice into the 3-pound bags, 5-pound bags or a combination of 3-pound and 5-pound bags. She needs to pack all 60 pounds of rice.

The prices for the bags of rice are shown in the chart.

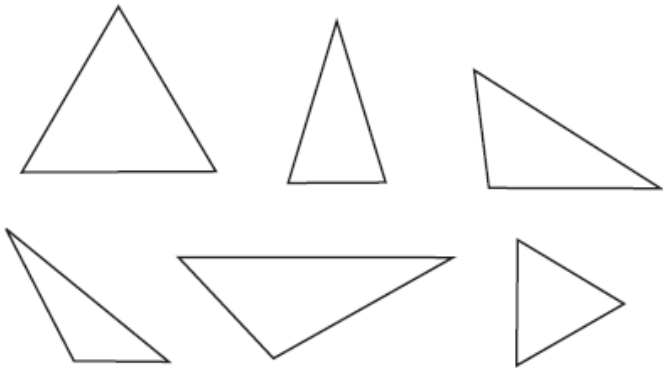
Bags of Rice

Weight	Price
3 pounds	\$4 a bag
5 pounds	\$6 a bag

Show three ways Jennie can pack the 60 pounds of rice into bags. For each way, show the total number of bags for each weight she will have packed. Show or explain your answer by using pictures, words or numbers.

Show which of your three ways will make the most money when all the bags Jennie packs are sold. Explain your answer by using pictures, words or numbers.

. Six triangles are shown.



Circle each triangle that appears to be scalene.

Explain how you decided which triangles are scalene.

Gavin bought a puzzle that costs \$6.35. He gave the clerk a \$10 bill.

How much change should Gavin receive? _____

Give an example of the bills and coins Gavin could receive for change. Use numbers, pictures or words to show your work.

Two triangles are drawn on the grid.



Which transformation — reflection (flip), translation (slide) or rotation (turn) — can Bill use to determine whether the two triangles are congruent? _____

Explain how this transformation shows Bill that the two triangles are congruent.

Eight students are shown.



Write a fraction and a decimal that represents the number of students wearing hats.

Raymond has these notebooks and pens in his backpack.

Raymond's Backpack

Notebook	Pens
Science	blue
Reading	green
Writing	red

List all the possible combinations of one notebook and one pen that Raymond could take from his backpack.

Anthony's family plants 15 trees each weekend.

Construct a table showing the total number of trees Anthony's family planted after 1, 2, 3, 4, and 5 weekends.

Describe the pattern that tells the number of trees that the family has planted.

If t is the total number of trees planted and w is the number of weeks, write an expression for the total number of trees, t , that are planted after w weeks.

If the pattern continues, how many trees will have been planted after 9 weeks? _____

Show or explain how you found your answer.

The table shows the number of cans of paint Joe used to paint benches.

Cans of Paint Used to Paint Benches

Number of Cans	Number of Benches
2	4
4	8
6	12
8	

How many benches can he paint with 8 cans of paint? _____

Use pictures, words or numbers to explain how you found the number of benches.

Joe and Janice are playing a guessing game. Joe tells Janice that he is thinking of a quadrilateral with at least one pair of parallel sides.

Draw 4 different types of quadrilaterals that Janice could guess from Joe's first hint.

Then, Joe tells Janice that the figure has 4 right angles.

Draw 2 quadrilaterals that Janice could guess from Joe's first and second hints.

Write a third hint that describes only one of these shapes.

Identify the shape. _____

The table shows the number of books sold at the book fair.

Type of Book	Number Sold
Fantasy	39
Mystery	27
Short Stories	20
Literature	29
Biography	14

It was estimated that about 200 books were sold.

Determine whether this estimate is reasonable.
Explain your decision.

A fourth-grade class has three hamsters and five ducklings. Each hamster has four legs. Each duckling has two legs.

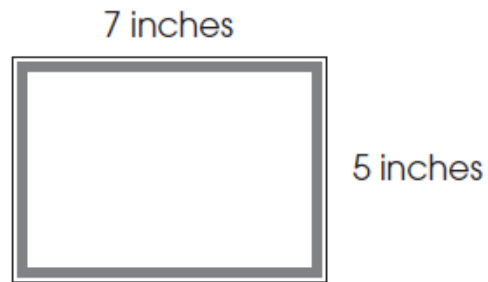
How many legs do the eight animals have in all? _____

Use pictures, numbers or words to show your work.

Phil has a bag with 1 red tile, 12 yellow tiles, 1 blue tile, and 6 green tiles. He draws one tile from the bag without looking.

List the colors in the order of the likelihood of Phil's drawing each of the colored tiles. Use words, numbers or a diagram to explain your answer.

Karen is putting ribbon around the outside edge of a rectangular note card as shown.



How much ribbon does Karen need to go around the card?

Show or explain how you found the amount of ribbon she needs.

Dakota was asked to draw a right equilateral triangle.

Use words or pictures to explain whether Dakota can draw a right equilateral triangle.

Kim needs to measure a quart of water to make some juice.

She has two different-sized measuring containers. Container A holds one cup and container B holds one pint.

Which container, A or B, will she have to fill the fewest times to measure the water she needs? _____

Use pictures, numbers or words to explain how you decided between the containers.

Tim's grocery store sells different-sized packages of cheese. Some packages and their weights are shown.

Package A	$\frac{1}{3}$ pound
Package B	$\frac{3}{4}$ pound
Package C	1 pound
Package D	$\frac{1}{2}$ pound
Package E	$\frac{1}{4}$ pound
Package F	$\frac{2}{3}$ pound

Tim wants to arrange the packages of cheese from the package that weighs the least to the package that weighs the most.

Put the weights on the number line in order from least to greatest.



A scale at the store shows that one of the packages weighs 0.5 pounds.

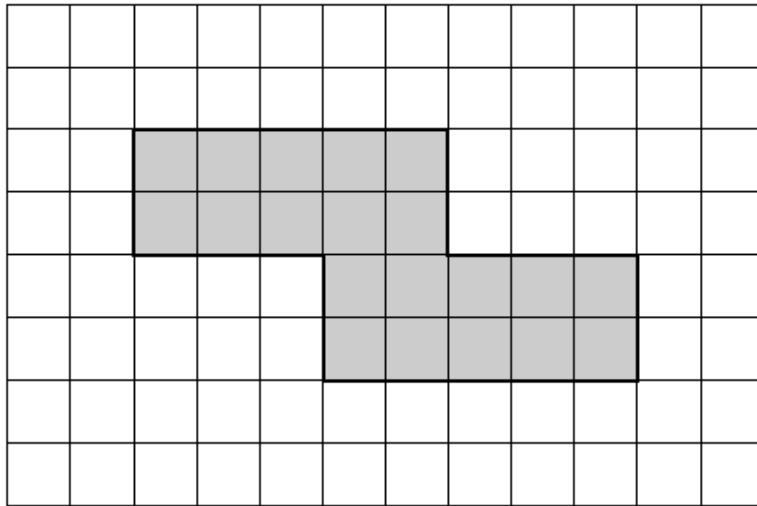
Which package has a weight of 0.5 pounds? _____
Explain how you decided which package weighs 0.5 pounds.

Each week, Jane puts two dollars (\$2) into her bank account and her mother puts in an additional dollar (\$1).

Construct a table to show the total amount of money Jane will have in her bank account after 1, 2, 3, and 4 weeks.

Antonio made the shape shown on the centimeter grid.

- - -



What is the perimeter of Antonio's shape? _____

Explain how you can find the perimeter of Antonio's shape.