

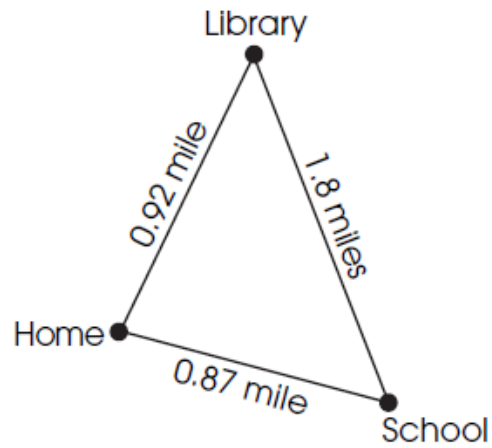
Gregg has four shirts and three pairs of pants. His shirts are red, green, white, and yellow. His pants are navy, black and tan.

In your **Answer Document**, list all the different shirt and pants combinations that Gregg can wear. (2 points)

Maria found the same pair of shoes on sale at three different stores. All the stores have the same original price. The first store has the shoes on sale for $\frac{1}{3}$ off. The second store has them on sale for 20% off. The third store has them on sale for one-fourth off.

In your **Answer Document**, determine which store has the best sale for the shoes. Explain your answer, using pictures, numbers or words. (2 points)

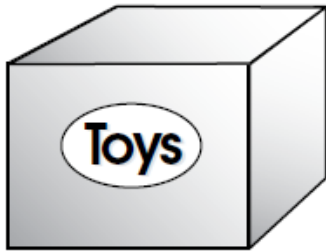
The diagram shows how far it is from Anna's home to her school, from her school to the library, and from the library to her home.



Each school day, Anna rides her bike from her home to her school. After school, she rides to the library and then home. On Saturday, Anna rides her bike from home to the library and back home. She does not ride her bike on Sunday. Anna's mother says that her daughter rides about 30 miles every week between her home, the school and the library.

In your **Answer Document**, use estimation to determine whether Anna's mother has made a reasonable estimate. Show or explain your work.
(4 points)

Justin keeps his toys in a box like the one shown.



In your **Answer Document**, explain the difference between the volume and the surface area of the box. (2 points)

Mike surveys his class to find each student's favorite dessert and records his data as shown.

Desserts

Student	Favorite Dessert
Oscar	Ice Cream
Jasmine	Brownies
Ashley	Ice Cream
Marcus	Ice Cream
James	Brownies
Cody	Cookies
Jessica	Cookies
Courtney	Ice Cream
Kayla	Brownies
Taylor	Cup Cakes
Antonio	Ice Cream
Mike	Brownies

In your **Answer Document**, construct a frequency table to summarize the data. Be sure to include labels. (2 points)

Ethan rakes leaves to earn money. He uses the information in the table shown to find how long he takes to rake lawns of different sizes.

Size of Lawn (square feet)	Time to Rake (minutes)
200	40
250	50
300	60
350	70
400	80

In your **Answer Document**, write a rule that tells how the amount of time Ethan needs to rake a lawn is related to the number of square feet in the lawn.

One of Ethan's neighbors has a 150-square-foot lawn. Use the table or your rule to explain how long it will take Ethan to rake this lawn. Show or explain your work.

Use the table or your rule to tell what size lawn Ethan can rake in 65 minutes. Show or explain your work. (4 points)

Peter's goal is to read 5 hours every school week. He reads every evening during the school week and records his time in the chart shown.

Peter's Reading Time

Day	Time Read
Monday	30 minutes
Tuesday	1 hour 15 minutes
Wednesday	1 hour 5 minutes
Thursday	40 minutes
Friday	?

In your **Answer Document**, determine how much time Peter should read on Friday to meet his goal. Show or explain how you found your answer.

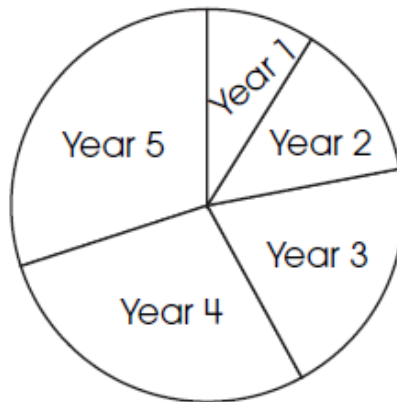
(2 points)

In your **Answer Document**, draw an obtuse angle. Use your protractor to give the measure of the obtuse angle. (2 points)

The height of a maple tree is recorded for each of 5 years in the table shown.

Year	1	2	3	4	5
Tree Height (in feet)	4	6	9	13	14

Chris displays the data in the circle graph shown.

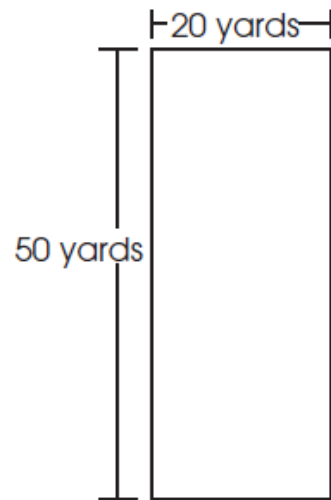


In your **Answer Document**, explain why Chris' circle graph is not an appropriate way to display the data.

Create an appropriate graph to display the data shown in the table. Be sure to give your graph a title, labels and a scale.

Explain why your graph is a better way to display the data. (4 points)

Joel's field is 20 yards wide and 50 yards long, as shown.



He wants to divide his field into two congruent rectangular fields, one for corn and the other for strawberries.

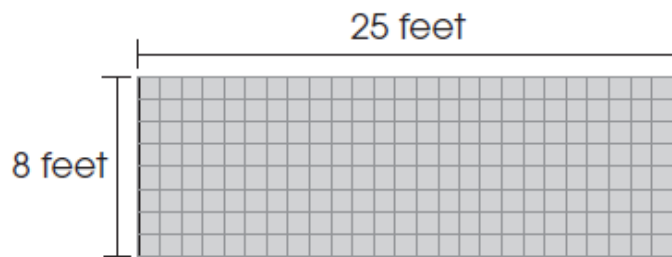
In your **Answer Document**, determine the length and the width of the two new fields.

Explain how you know that the two new fields are congruent. (2 points)

A class needs 64 brownies for a bake sale. Mike brings 28 brownies.

In your **Answer Document**, write two number sentences using different operations to find the number of brownies the class still needs for the bake sale. (2 points)

A rectangle is shown.



In your **Answer Document**, find the area and the perimeter of the rectangle. Show your work. Label the area and the perimeter with the appropriate units. (2 points)

Mrs. Garner's classroom had 25 desks. They were arranged in 5 rows that each contained 5 desks.

Row 1 

Row 2 

Row 3 

Row 4 

Row 5 

In your **Answer Document**, write the fraction of the desks that are in Row 1. Write this fraction as a percent. Show or explain your work.

Another classroom has between 15 and 22 desks with the same number of desks in each row. Row 1 has 25% of the desks in this classroom. Draw an arrangement of the desks in this classroom. How many desks are in Row 1? (4 points)

Pam has 70 baseball cards. She decides that she will buy 10 more baseball cards each week.

In your **Answer Document**, write an equation that describes the number of cards, c , she will have in w weeks.

Then, use your equation to find the number of baseball cards Pam will have in 6 weeks. (2 points)

Morgan recorded the amount of time she spent reading and the number of pages she read each day.

Time (minutes)	Number of Pages
60	20
75	25
15	5
45	15

In your **Answer Document**, describe the relationship between the number of pages Morgan read each day and the amount of time she spent reading.

Morgan continues to read at the same rate. Determine the amount of time it will take her to read 30 pages. Show work or explain how you determined the amount of time it will take Morgan to read 30 pages. (2 points)

Two students added decimals.

Scott

$$\begin{array}{r} 3.54 \\ + 1.6 \\ \hline 3.70 \end{array}$$

Meg

$$\begin{array}{r} 3.54 \\ + 1.6 \\ \hline 5.14 \end{array}$$

In your **Answer Document**, use pictures, numbers or words to explain which student correctly added the decimals. (2 points)

Monica has 3 red cards, 5 green cards and 4 blue cards in a box. She wants to add some yellow cards to her box. She also wants the probability of randomly picking any one of the four colors to be the same.

In your **Answer Document**, determine the number of cards of each color Monica will need to add so that the probability of picking a red, green, blue, or yellow card is the same. Explain how you determined the number of each color.

Then, state the probability of picking one of the colors. (4 points)

Mr. Jefferson went to a book fair. Books cost \$3 each.

In your **Answer Document**, write an equation for the total cost (t) of buying any number of books (b) at the book fair.

Use your equation to find the total cost of buying 7 books at the book fair.
(2 points)

Eric subtracted $\frac{1}{8}$ from $\frac{4}{8}$. Then he subtracted $\frac{1}{4}$ from the difference. Eric's work is shown in Steps 1 and 2.

$$\text{Step 1: } \frac{4}{8} - \frac{1}{8} = \frac{3}{8}$$

$$\text{Step 2: } \frac{3}{8} - \frac{1}{4} = \frac{2}{8}$$

In your **Answer Document**, explain whether Eric's work in Step 1 and Step 2 is correct.

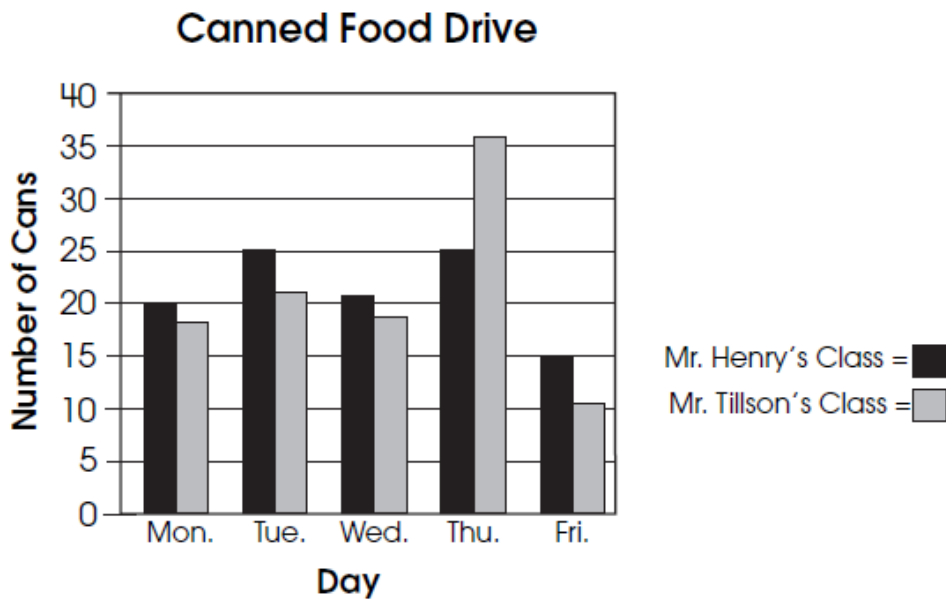
Justify your explanation by using diagrams, words or numbers.
(2 points)

Mrs. Smith planned parent-teacher conferences for her 21 students beginning next week. She scheduled conferences from 2:00 p.m. to 5:00 p.m. each day.

- The conferences begin on Monday.
- She scheduled 20 minutes for each conference.
- The first conference each day begins at 2:00 p.m.
- The last conference each day ends by 5:00 p.m.
- She scheduled 21 conferences.

In your **Answer Document**, use a table, words or numbers to determine the day and time Mrs. Smith's last conference is scheduled to end. Show or explain how you found the day and time for the last conference. (2 points)

The graph shows the number of cans collected by two classes during a food drive.



Mr. Henry's class claimed they collected more cans every day than Mr. Tillson's class.

In your **Answer Document**, explain whether you agree or disagree with the claim. Support your answer, using specific information from the graph.
(2 points)

Stan is making a triangular desk to fit in a corner. One angle needs to measure 90° . He wants the other two angles to be congruent to each other.

In your **Answer Document**, draw Stan's desk and determine the measure of the other two angles.

Explain how you found the measures of the other two angles. (2 points)