Session 1

This session contains 32 multiple-choice questions. Fill in the circle for your answer to each multiple-choice question.

You may use a ruler and a protractor during this session. You may also use a calculator during this session.

Now turn the page and begin.

9. Look at the table of values below.

x	y
4	12
5	15
7	21
$8\frac{1}{3}$	25

Which of the following statements is true about the relationship between x and y in this table?

Ⓐ It is proportional because the difference between x and y is the same for each pair.

Ⓑ It is proportional because the ratio between x and y is the same for each pair.

Ⓒ It is not proportional because one value of x is a mixed number.

Ⓓ It is not proportional because the difference between x and y is not the same for each pair.

10. Solve:

$$\frac{6\frac{4}{5} - 3(-2.25)}{5}$$

Ⓐ −2.71

Ⓑ −0.01

Ⓒ 0.01

Ⓓ 2.71

Session 2

This session contains six multiple-choice questions and ten constructed-response items. Fill in the circle for your answer to each multiple-choice question. Write your answer for each constructed-response item.

You may use a ruler and a protractor during this session. You may also use a calculator during this session.

Now turn the page and begin.

43. The table below shows the number of people who came to watch the soccer team's last 10 home games.

Game	1	2	3	4	5	6	7	8	9	10
Number of People	52	68	47	64	59	58	64	85	65	68

Create a box plot to show the data in the table above.
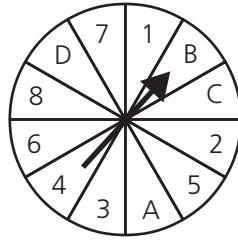
What is the interquartile range of the data?

Answer _____

44. Mr. and Mrs. Diaz and their three children went to the aquarium. Adult tickets cost $24.50, and child tickets cost $16.50. Parking at the aquarium cost $10. Mr. and Mrs. Diaz bought each child a T-shirt in the gift shop. If the Diaz family spent a total of $198.20, what was the cost of each T-shirt?

Show your work.

Answer $_____

45. Look at the spinner below.

Sophia plans to spin the arrow on the spinner 150 times. How can she predict the number of times the arrow will land on a letter?

Explain your answer.

_____

_____

_____

_____

Sophia spins the arrow 150 times and records her results in the table below.

Result	1	2	3	4	5	6	7	8	A	B	C	D
Number of Times	23	14	18	6	19	12	2	15	18	7	10	5

Based on Sophia's results, what is the experimental probability that the next spin will be the letter D?

Answer _____