

Part II

51.

In the inequality below, which of the following numbers could replace the variable x ?

Circle all of the numbers below which would make the inequality true.

$$\frac{3}{7} < x < 0.73$$

Explain in words why each number you circled could replace the variable x .

$$\frac{1}{3} \quad 0.47 \quad \frac{9}{12} \quad \frac{3}{5} \quad \frac{7}{3}$$

52.

The class had a budget of \$800.00 for the trip. They had reserved 55% of the money for food and beverages. The remainder of the money was used for transportation. If transportation costs \$2.25 per person, how many students were able to participate?

Show your work.

53.

A shirt regularly sells for \$22.50. It is on sale at a 15% discount. The sales tax is 8.5%.

Part A

What is the total price of the shirt on sale including tax?

Show your work.

Part B

In determining the total price of the shirt, is there a difference between:

- adding the sales tax before subtracting the discount? **AND**
- adding the sales tax after subtracting the discount?

Show your work or explain in words.

54.

Mr. Adams will be serving 20 people at a barbeque. He plans to make two hamburgers for each person. Mr. Adams spent \$27.00 at the store on the meat, which sells for \$2.25 per pound. If Mr. Adams wants to make all the hamburgers the same size, what will be the size, in pounds, of each hamburger?

Show your work.