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.
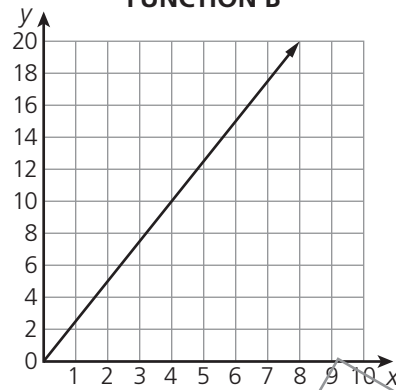
Now turn the page and begin.

3. Two functions are shown below.

FUNCTION A

x	y
2	2.6
2.5	3.25
6	7.8
8.2	10.66

FUNCTION B

Which of the following statements is true?

Ⓐ The rate of change for function A is 2.5 more than the rate of change for function B.

Ⓑ The rate of change for function B is 2.5 more than the rate of change for function A.

Ⓒ The rate of change for function A is 1.2 more than the rate of change for function B.

Ⓓ The rate of change for function B is 1.2 more than the rate of change for function A.

4. What is the solution, if any, to the equation below?

$$\frac{1}{4}(-16x + 12) - 6 = -4x - 3$$

Ⓐ no solution

Ⓑ infinitely many solutions

Ⓒ $x = 0$

Ⓓ $x = -\frac{45}{68}$

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.

44. On the coordinate plane below, triangle *R'S'T'* is the image of triangle *RST.*
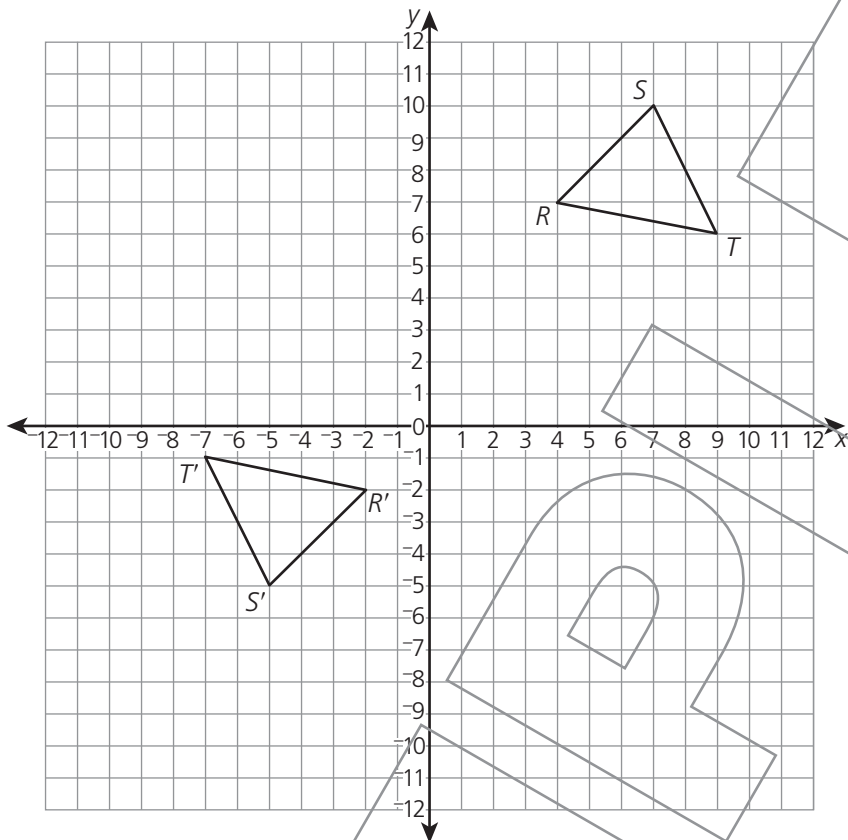
Describe the sequence of transformations that can be used to prove that triangles *RST* and *R'S'T'* are congruent.

Explain how you know your answer is correct.

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48. A caterer is making appetizers for a party. He uses the same amount of guacamole on each appetizer. After making 12 of the appetizers, he has 114 ounces of guacamole left. After making 35 of the appetizers, he has 102.5 ounces of guacamole left. Write an equation that can be used to represent the relationship between *x,* the number of appetizers the caterer has made and *y,* the number of ounces of guacamole that remains.

Show your work.

Answer _____

Describe how your equation gives the amount of guacamole the caterer uses for each appetizer and the total amount of guacamole he started with.

Explain your answer.

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