

8.F.1 Snapshot Assessment

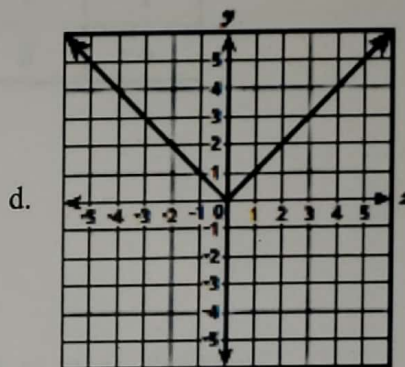
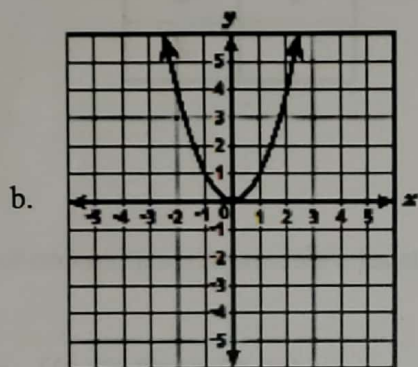
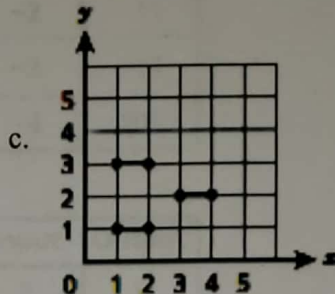
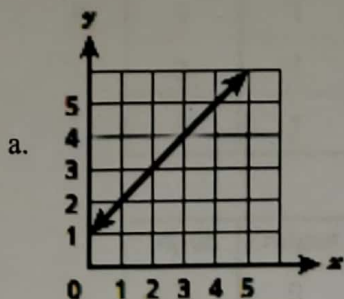
<div style="display: flex; justify-content: space-between; align-items: center;"> □ Score </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 5px;"> 10 = _____ % </div>
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Name: _____

Class: _____

Date: _____

1. Which graph below does **not** represent a function of x ?
(2 points)



2. Which statement **best** explains whether these ordered pairs represent a function?
(2 points)

$$(-4, 2), (6, 7), (-8, 3), (9, 10), (12, 14), (6, 9)$$

- The ordered pairs represent a function because no output values are repeated.
- The ordered pairs represent a function because each output value is greater than each input value.
- The ordered pairs do not represent a function because one input value has two different output values.
- The ordered pairs do not represent a function because the difference between the input and output of each ordered pair is not the same.

*Adapted from NYS Math Released Questions

Charlena T. Morgan

3. Which table represents a relation that is **not** a function?
(2 points)

a.

Input	Output
1	1
2	1
3	1
4	1

c.

Input	Output
-1	-7
-2	11
-3	13
-4	105

b.

Input	Output
2	0
4	1
6	2
8	0

d.

Input	Output
3	0
5	2
7	1
3	-4

4. Which set of ordered pairs represents a function?
(2 points)

a. $\{(2, 7), (2, 8), (3, 8)\}$

c. $\{(4, 1), (5, 1), (4, 4)\}$

b. $\{(3, 2), (3, 3), (3, 4)\}$

d. $\{(5, 6), (8, 6), (9, 6)\}$

*Adapted from NYS Math Released Questions

Charlena T. Morgan

5. The table below shows a relation between x and y .

x	y
-4	16
-2	4
0	0
2	4
4	16
6	36

Susie said the relation above is also a function. Explain why Susie is correct or incorrect.

(2-Point Holistic Rubric)

8.F.4(2) Snapshot Assessment
EMPHASIZED

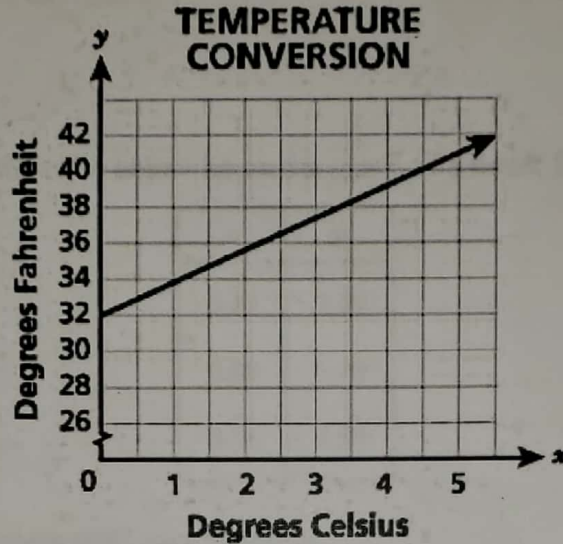
Score
$\frac{\square}{10} = \square\%$

Name: _____

Class: _____

Date: _____

1. The relationship between temperature in degrees Fahrenheit and degrees Celsius is shown in the graph below.



What is the meaning of the y-intercept?

(2 points)

- a. the change in degrees Fahrenheit for every change of one degree Celsius.
 - b. the change in degrees Celsius for every change of one degree Fahrenheit.
 - c. the temperature in degrees Fahrenheit when the temperature is zero degrees Celsius.
 - d. the temperature in degrees Celsius when the temperature is zero degrees Fahrenheit.
2. The cost to rent a paddleboat at the city park includes an initial fee of \$7.00, plus \$3.50 per hour. Which equation models the relationship between the total cost, y , and the number of hours, x , that the paddleboat is rented?

(2 points)

- a. $y = 3.5x + 7$ b. $y = 7x + 3.5$ c. $y = \frac{x}{7} + 3.5$ d. $y = \frac{x}{3.5} + 7$

*Adapted from NYS Math Released Questions

Charlene T. Morgan

3. A car traveled 36 miles in 45 minutes. The car traveled at a constant speed. If the car continues to travel at this rate, which equation can be used to determine y , the total number of miles the car will travel, in x hours?

(2 points)

a. $y = 48x$

b. $y = x + 48$

c. $48y = x$

d. $48 + y = x$

4. The values given in the table below lie on the graph of a linear function.

x	y
0.25	1.00
0.50	1.75
0.75	2.50

What equation represents this linear function?

(2-Point Holistic Rubric)

Show your work.

Answer _____

*Adapted from NYS Math Released Questions

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5. Line n passes through the points $(-3, -7.5)$ and $(2, -5)$. Tahlia determined that the equation of line n is $y = 0.5x$. Explain the error Tahlia made while determining her equation. Be sure to include the correct equation in your explanation.

(2-Point Holistic Rubric)

Answer _____

*Adapted from NYS Math Released Questions

Charlena T. Morgan