

Name: _____ Hour: _____

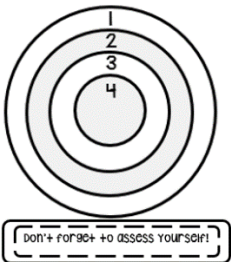
Standard: A-CED.2 Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.

/4



1.) Write an equation for the graph in all three forms.

2.) What does this graph represent?



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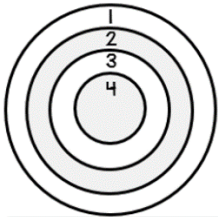
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Standard: F-IF.4 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship.

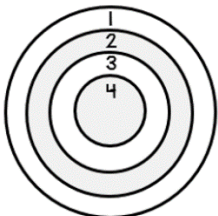
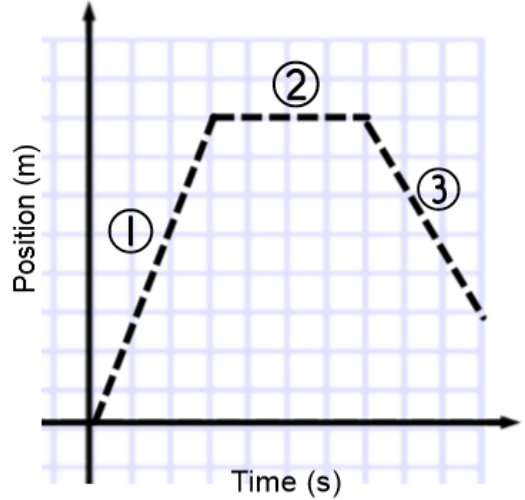
Standard: F-LE.5 Interpret the parameters in a linear function in terms of a context.

N-Q.2 Define appropriate quantities for the purpose of descriptive modeling.

/4

Directions: Use the graph to answer the questions.

- 1.) What is happening during part 1 of motion?
- 2.) What is happening during part 2 of motion?
- 3.) What is happening during part 3 of motion?
- 4.) When do you move the fastest?



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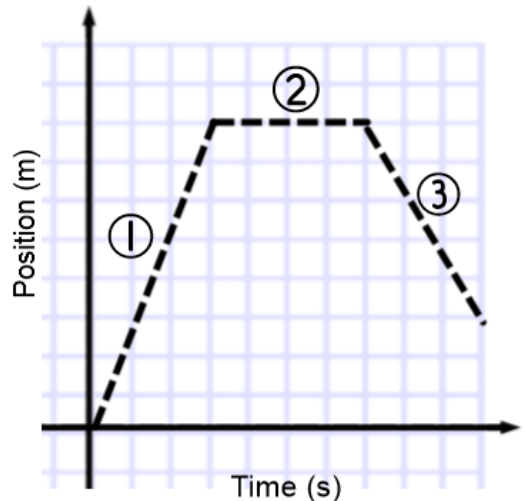
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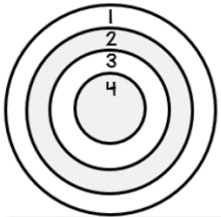
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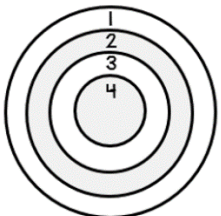
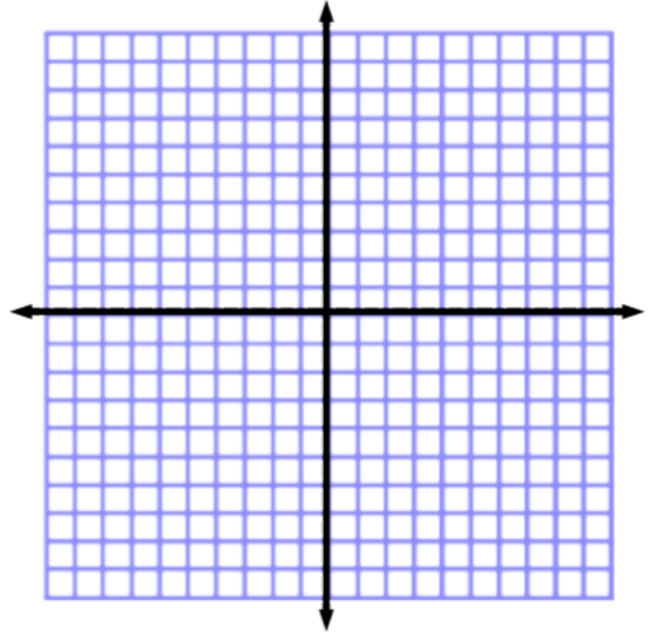
Standard: F-IF-7a Graph linear functions and show intercepts, maxima, and minima

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Directions: Graph the linear function.

1.) $y = -\frac{1}{2}x - 3$

2.) What are the intercepts?



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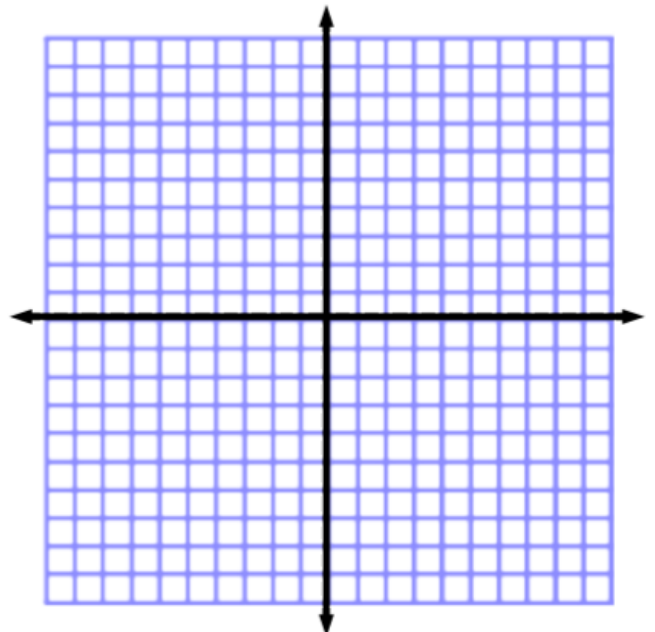
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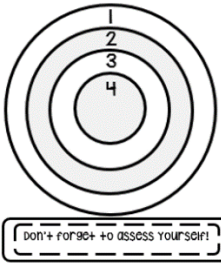
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Standard: F-LE.1b Recognize situations in which one quantity changes at a constant rate per unit interval relative to another.

Standard: F-LE.2 Construct linear functions given a graph, a description of a relationship, or two input-output pairs.

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Directions: One of the given tables is linear and one is not. Answer the following questions using the tables.

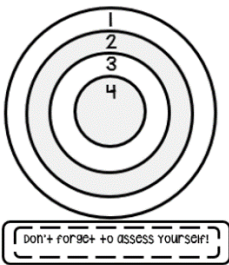
Table A

x	y
-1	-1
1	3
3	7

Table B

x	y
-1	-2
1	1
5	9

- 1.) Which table represents a linear relationship?
- 2.) Explain how you decided.
- 3.) Write an equation for the linear function.



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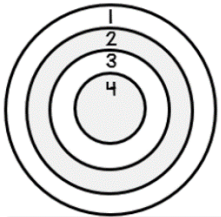
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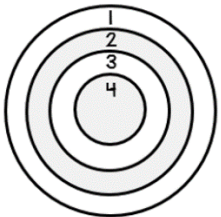
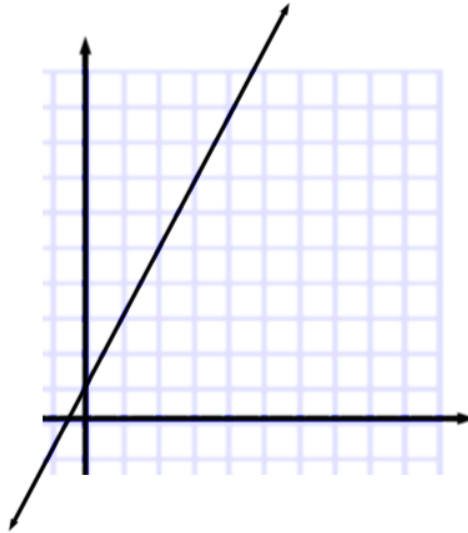
Standard: F-IF.9 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).

Standard: F-IF.6 Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.

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Directions: Use the table and graph to determine which situation has a greater rate of change. Then explain, in words, how you know.

x	y
2	4
4	6
6	8
8	10



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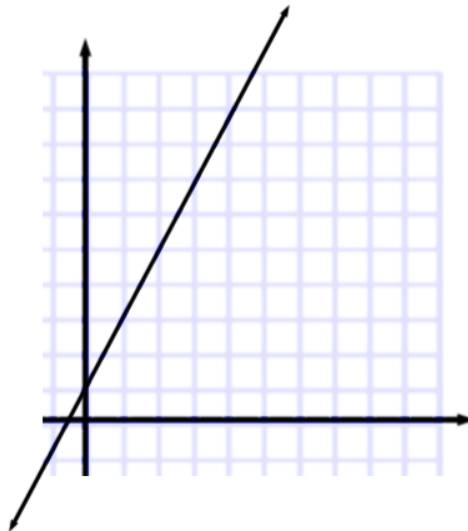
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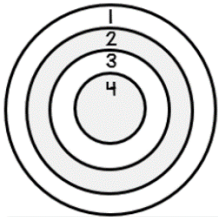
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Standard: F-LE.2 Construct linear functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or two input-output pairs (include reading these from a table).

/4

Directions: Write an equation that represents the number of tiles in each Figure number.

Equation:

Figure 1



Figure 2

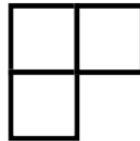


Figure 3

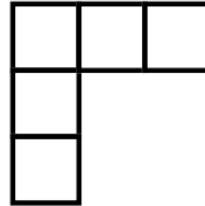
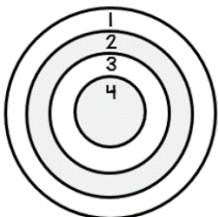
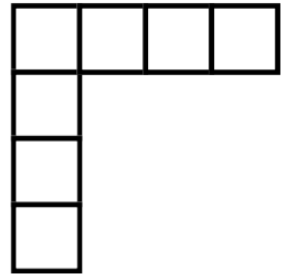


Figure 4



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Equation:

Figure 1



Figure 2

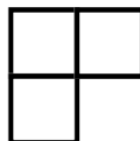


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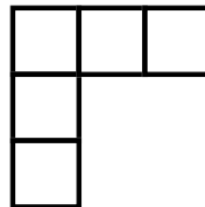


Figure 4

