Table and Graph of Ratio and Rate

1)

If a hummingbird were to get all of its food from a feeder, then a 16-ounce nectar feeder could feed about 80 hummingbirds a day. How many hummingbirds would you expect to be able to feed with a 12-ounce feeder?

Ounces of Nectar	16		12
Number of Birds Fed	80		

2)

There are two employees for every tiger in the tiger exhibit at a local zoo. For every elephant in the elephant exhibit, there are four employees.
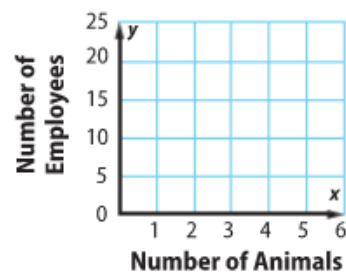
a)

Make a table for each animal that shows the total number of employees for 1, 2, 3, or 4 animals. List the information as ordered pairs (number of animals, number of employees).

Tiger Exhibit			Elephant Exhibit		
Animals, x	Employees, y	(x, y)	Animals, x	Employees, y	(x, y)
1			1		
2			2		
3			3		
4			4		

b)

. Graph the ordered pairs for each exhibit on the same coordinate plane.

. (MP) **Justify Conclusions** Using the tables and graphs, write a few sentences comparing the ratios of the number of employees per animal. How is this shown on the graph?

Number of Employees vs Number of Animals graph

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3

Jade enlarged the photograph at the right to a poster. The size of the poster is 60 inches by 100 inches. Is the ratio of the poster's length and width equivalent to the ratio of the photograph's length and width? Explain your reasoning. (Example 3)

3 in.

5 in.

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