

Station 2

At this station, you will work with other students to explore a real-life situation.

A grocery store sells bags of frozen shrimp. The table shows the number of bags and the total number of pounds of shrimp contained in the bags.

x	Number of Bags	3	4	6	8	9
y	Pounds of Shrimp	4.5	6	9		

Work with other students to look for patterns in the table.

1. Complete the table. (Hint: It may help to find the unit rate first)

2. Explain how you completed the table. _____

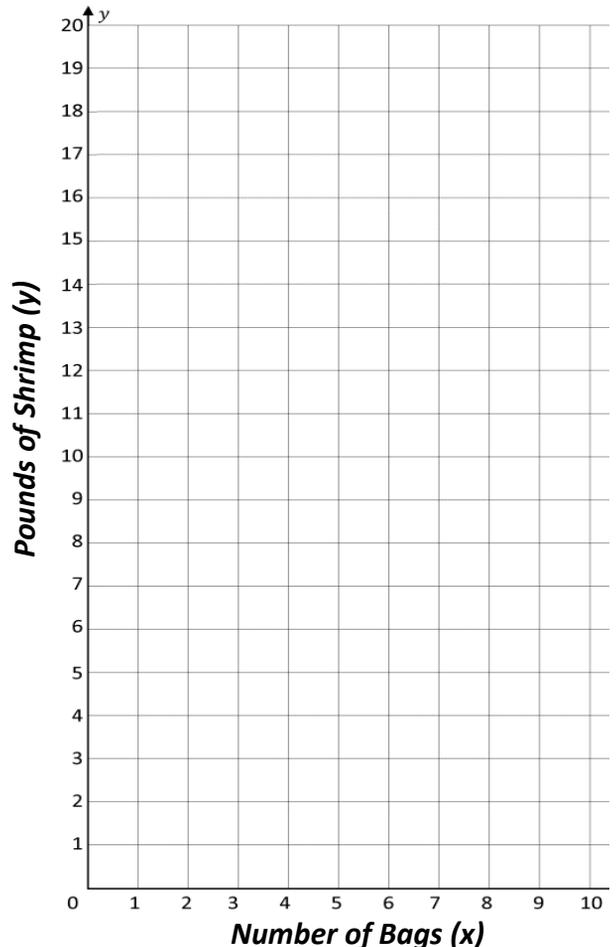
3. Write your ordered pairs below:
(,) (,) (,)
(,) (,)

4. Graph your ordered pairs in the coordinate plane to the right.

5. Does your graph show a proportional relationship?

YES or NO

6. Name three things you observed in the table or graph.



Station 2

At Suki's Pizza Parlor, each slice of pizza costs \$1.50. Aaron had been studying adding decimal numbers in math class, and so while waiting for his pizza, he made the chart below.

x		y	
Number of slices		Price	
1		\$1.50	
2		\$3.00	
3		\$4.50	
4		\$6.00	
5		\$7.50	

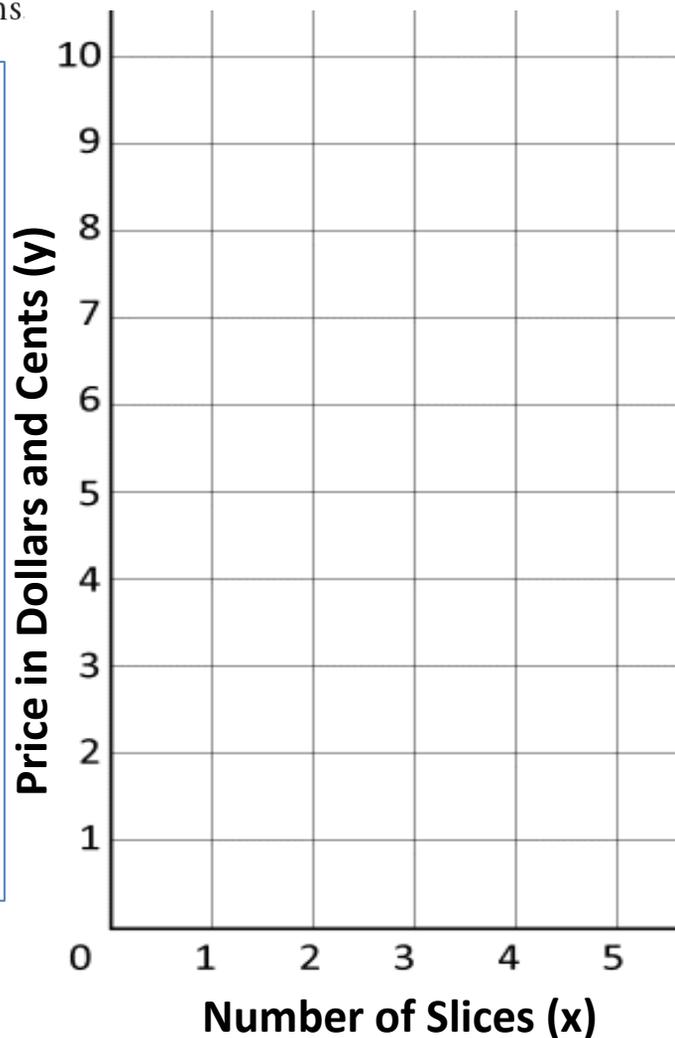
Use Aaron's chart to answer the following questions

What is happening in the left column (x) each time you move down?

What is happening in the right column (y) each time you move down?

Are the ratios equivalent?
YES or NO

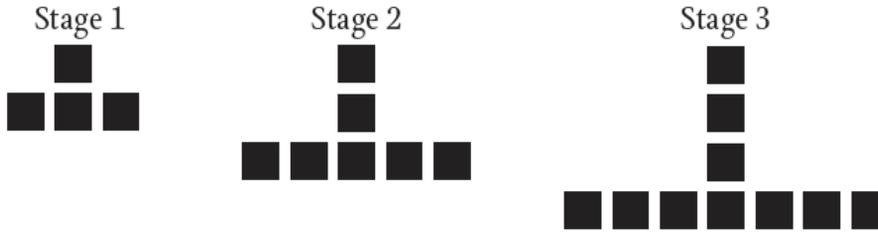
Proportional ? YES or NO



Station 3

At this station, you will use a table and graph to explore a pattern. You can also use tiles to build the pattern.

Andre is using tiles to make a pattern for a walkway in his garden. Here are the first three stages in his pattern.



1. Complete the table.

Stage (x)	1	2	3	4	5
Number of tiles (y)					

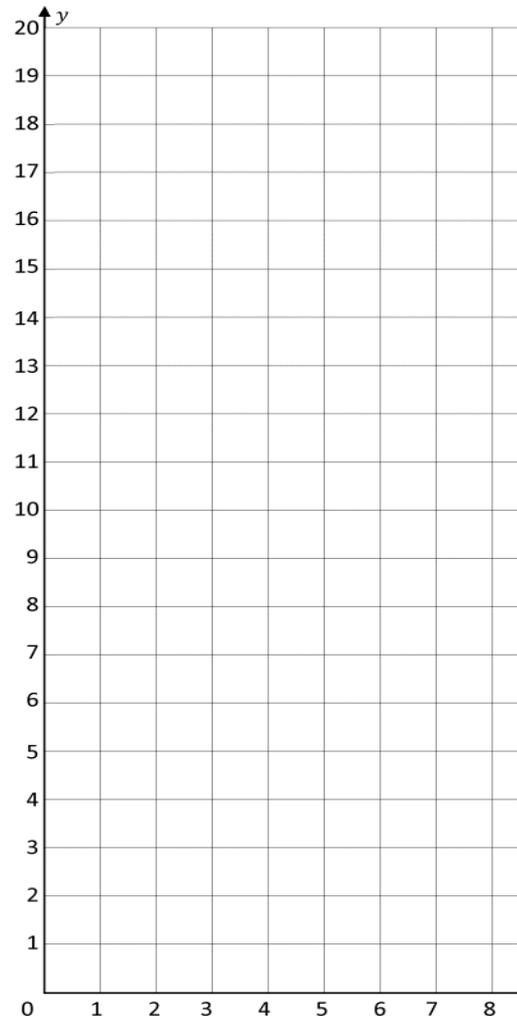
2. Write the ordered pairs of values, (x, y) , from the table.

3. Graph your ordered pairs in the coordinate plane to the right.

4. Does your graph show a proportional relationship?

YES or NO

5. Based on your answer for Question 4 how do you know?



Station 3

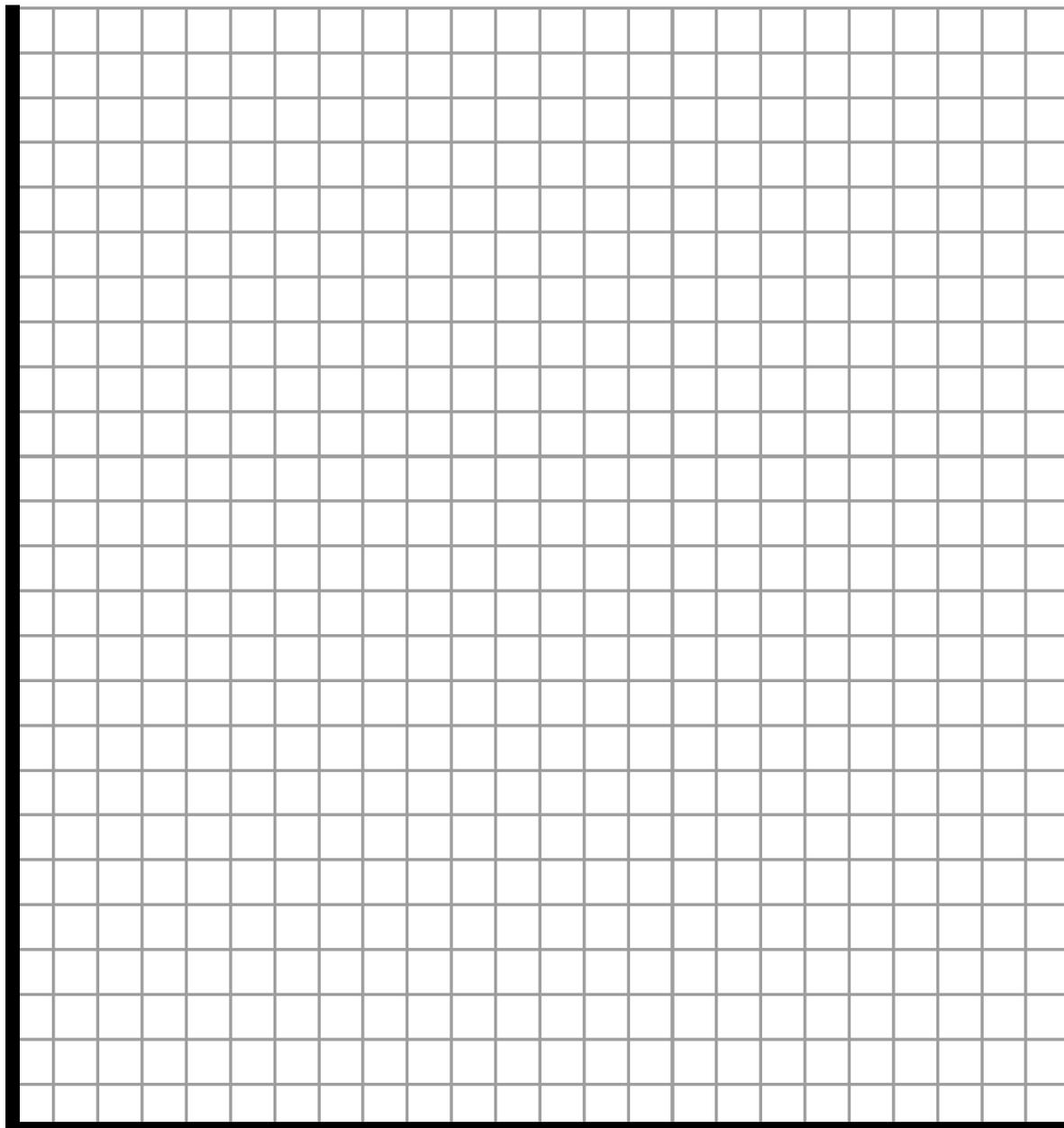
You will work with other students to explore a special type of relationship.

1. Work together to brainstorm pairs of numbers whose product is 24. Be sure to consider positive ~~and negative~~ numbers.

Record the pairs of numbers in the table. One number in each pair is x , the other is y .

x													
y													

- Y
2. Label the coordinate plane below, then graph your ordered pairs.



Proportional ? YES or NO

X

Station 4

Example:

Input	1	2	3	4	5
Output	4	5	6	7	8

Rule: Add 3 to the input to get the output.

Proportion: YES or **NO**

1.

Input	5	7	9	11	13
Output	10	14	18	22	26

Rule: _____

Proportion: YES or NO

2.

Input	10	20	30	40	50
Output	6	16	26	36	46

Rule: _____

Proportion: YES or NO

3.

Input	24	28	32	36	40
Output	12	14	16	18	20

Rule: _____

Proportion: YES or NO

4.

Input	0	2	4	6	8
Output	3	7	11	14	19

Rule: _____

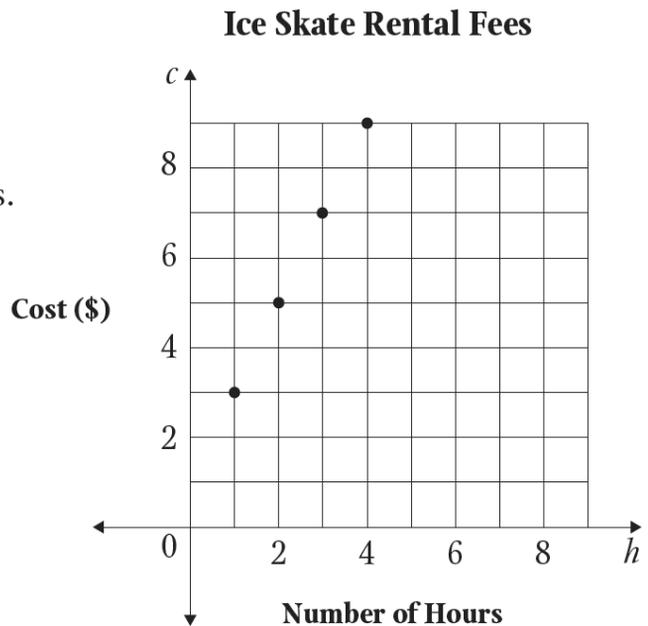
Proportion: YES or NO

Station 4

At this station, you will work with other students to analyze data in a graph.

The graph to the right shows the cost of renting ice skates for various numbers of hours.

Work together to answer these questions. When everyone agrees on an answer, write it in the space provided.



1. What does it cost to rent ice skates for 1 hour? 2 hours? 3 hours?

2. Predict the cost of renting skates for 6 hours. _____

3. Explain how you made this prediction. _____

4. Convert the ordered pairs in the graph into the following table.

Hours x	1	2	3	4	5	6
Cost (\$) y						

5. Determine if cost is proportional to the number of hours when renting ice skates.

YES or NO