

Name: _____

Date: _____

Justin Time went out Trick-or-Treating on Halloween night. After arriving home at the end of the night, he decided to count the candy he had collected. He discovered that for every fun sized bag of Skittles he had, there are 3 pieces of chocolates.

1. Draw a tape diagram to represent the ratio of fun-sized bags of Skittles to chocolates.

2. If Justin has a total of 42 pieces of chocolate, how many bags of Skittles does he have? Use your tape diagram to support your answer.

Bags of Skittles	Chocolates
18	<input type="text"/>
9	27
<input type="text"/>	39

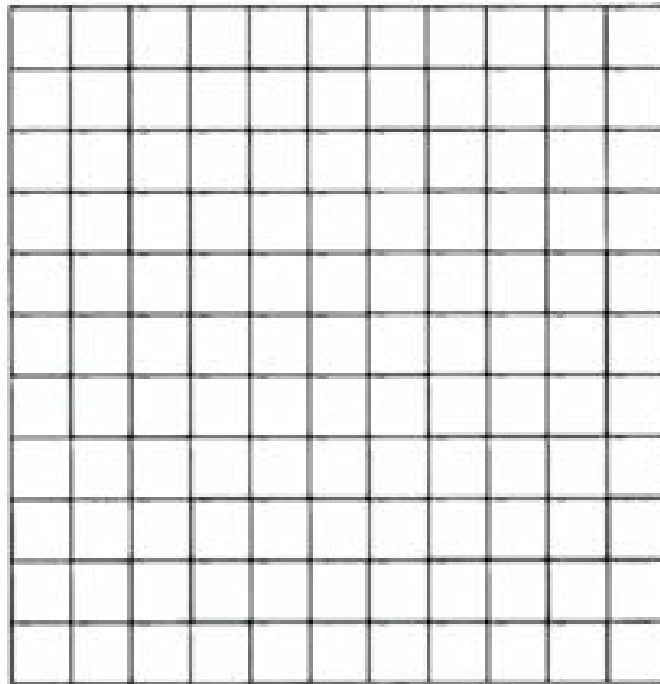
3. Write an equation to represent this situation.

4. Complete the ratio table for the situation above.

5. If Justin no more than 18 chocolates in his bag, complete the ratio table for all possible values of chocolates.

		3			6
3	6				18

6. Graph the ordered pairs on the coordinate plane. Label the axes.



7. Justin Time, and his friend Jim Nasium, kept track of how fast they were walking that night so they could compare who walked at a faster speed. Both used apps on their phones to track this data. Their data is shown below.

Justin:

Number of Hours	2	3	4
Number of Miles	3	4.5	6

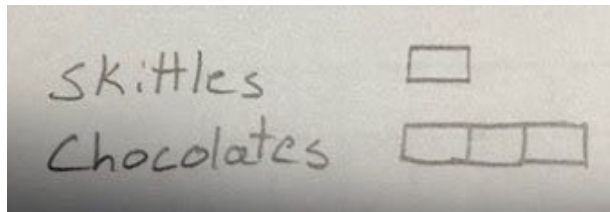
Jim: $m=1.5h$ where m represents the number of miles he walked and h represents number of hours he walked.

Who walked at a faster rate (or pace) that night? Explain your answer.

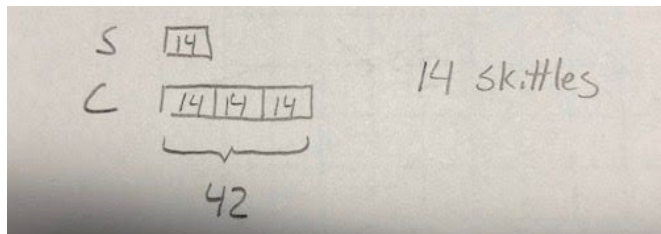
ANSWER KEY

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1. Draw a tape diagram to represent the ratio of fun-sized bags of Skittles to chocolates.



2. If Justin has a total of 42 pieces of chocolate, how many bags of Skittles does he have? Use your tape diagram to support your answer.



3. Write an equation to represent this situation.

$$3s = c$$

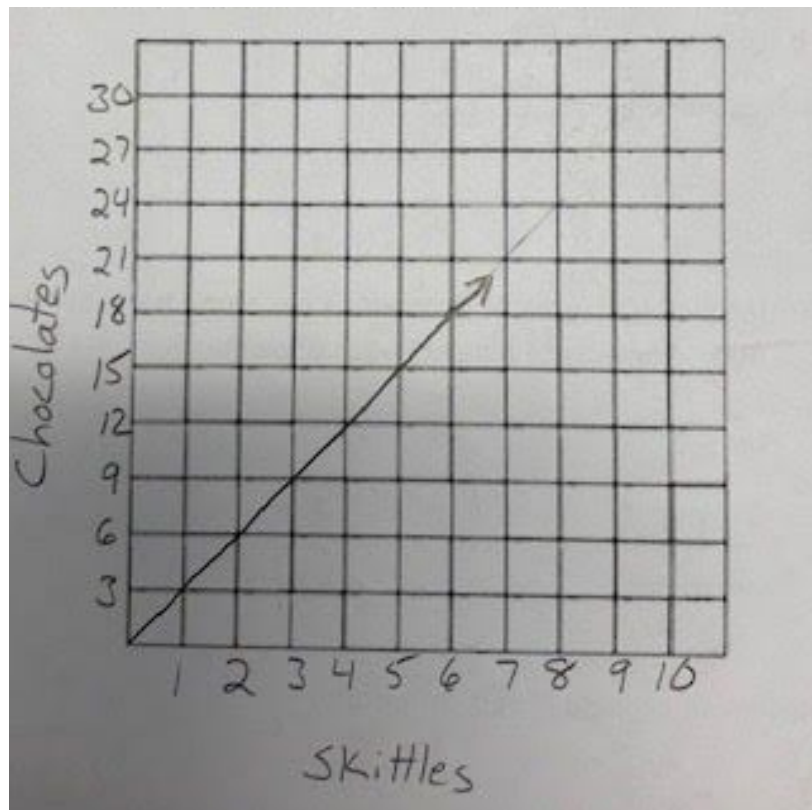
4. Complete the ratio table for the situation above.

Bags of Skittles	Chocolates
18	54
9	27
13	39

5. If Justin no more than 18 chocolates in his bag, complete the ratio table for all possible values of chocolates.

1	2	3	4	5	6
3	6	9	12	15	18

6. Graph the ordered pairs on the coordinate plane. Label the axes.



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Justin:

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Who walked at a faster rate (or pace) that night? Explain your answer.

Justin
miles | hour
 $\div 2 \left(\frac{3}{1.5} \mid \frac{2}{1} \right) \div 2$

Jim
 $m = 1.5h$
↑
1.5 miles per hour

They are the same!
They both walk $1\frac{1}{2}$ miles/hour