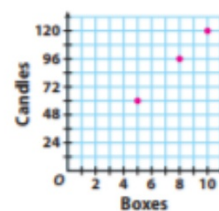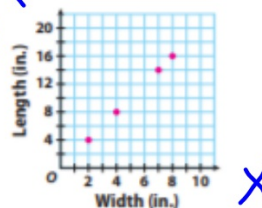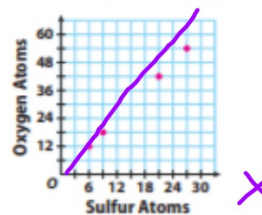**November 7, 2018**
Periods 1,2,4,6

Warm Up- A blueprint of a house is drawn to scale of 1 inch =
2 ft. If the actual length of a room is 13.8 ft., how long will
it be on the blueprint?

Class work - Go over homework page 176.
Partner work - pg. 177, #s 7-11. Check answers together.
Quiz - Lesson 7.1

Homework - finish quiz

1. The ratio of oxygen atoms to sulfur atoms in sulfur dioxide is always the same. The table shows the numbers of atoms in different quantities of sulfur dioxide. Complete the table. (*Explore Activity 1*)

Sulfur atoms	6	9	21	27
Oxygen atoms	12	18	42	54

What are the equivalent ratios shown in the table?

$$\frac{12}{6} = \frac{18}{9} = \frac{42}{21} = \frac{54}{27}$$

$$\frac{1}{2} \qquad \frac{x}{y} = \frac{x}{y}$$

2. Use the table in Exercise 1 to graph the relationship between sulfur atoms and oxygen atoms. (*Explore Activity 2*)

3. Stickers are made with the same ratio of width to length. A sticker 2 inches wide has a length of 4 inches. Complete the table. (*Explore Activity 1*)

Width (in.)	2	4	7	8
Length (in.)	4	8	14	16

What are the equivalent ratios shown in the table?

$$\frac{2}{4} = \frac{4}{8} = \frac{7}{14} = \frac{8}{16}$$

$$\frac{1}{2}$$

4. Graph the relationship between the width and the length of the stickers from Exercise 3. (*Explore Activity 2*)

5. Five boxes of candles contain a total of 60 candles. Each box holds the same number of candles. Complete the table and graph the relationship. (*Example 1*)

Boxes	5	8	10
Candles	60	96	120

$$\frac{5}{60} = \frac{1}{12}$$

❓ ESSENTIAL QUESTION CHECK-IN

6. How do you represent real-world problems involving ratios and rates with tables and graphs?

Sample answer: Find equivalent ratios and rates to make a

7.1 Independent Practice

FL 6.RP.1.3, 6.RP.1.3a, 6.RP.1.3b

The table shows information about the number of sweatshirts sold and the money collected at a fundraiser for school athletic programs. For Exercises 7–12, use the table.

Sweatshirts sold	3	5	8	9	12
Money collected ($)	60	100	160	180	290

(handwritten: X, Y labels; 100, 160, 290 added; 9)

7. Find the rate of money collected per sweatshirt sold. Show your work.

_____
_____

8. Use the unit rate to complete the table.

9. Explain how to graph information from the table.

_____
_____
_____
_____

10. Write the information in the table as ordered pairs. Graph the relationship from the table.

_____

11. **What If?** How much money would be collected if 24 sweatshirts were sold? Show your work.

_____
_____
_____

12. **Analyze Relationships** Does the point (5.5, 110) make sense in this context? Explain.

_____
_____
_____

(handwritten on right side: $20, (3, 60), (5, 100))

Money Collected ($) vs. Sweatshirts Sold graph