

Name: Completed Version

Hour: \_\_\_\_\_

## 2.3 Making Comparisons With Rate Tables

Focus Question: How do rate tables help us find equivalent ratios?

Think back to our problem for yesterday where Crystal and Alexa were unequally sharing the fruit worm.

Crystal thought she could use what she knew about equivalence to make a table:

Segments for Alexa	6	3	1	2	1/2	10
Segments for Crystal	12	6	2	4	1	20

The table shows that for every segment given to Alexa, Crystal gets two segments of the fruit worm.

This is Alexa's Unit Rate.

The table also shows that for every  $\frac{1}{2}$  segment Alexa is given, Crystal gets one segment.

This is Crystal's Unit Rate

Unit Rates from previous example:

Alexa's 1 segment to Crystal's  $\frac{1}{2}$  segment.

AND

Crystal's 2 segments to Alexa's 1 segment

What if we were to extend the table:

Segments for Alexa	6	3	1	2	$\frac{1}{2}$	10	20
Segments for Crystal	12	6	2	4	1	20	?

What would be the missing value? \_\_\_\_\_

For the rest of class, you need to complete problems A, B, and C on pg. 49 of your student book.

This needs to be done on a separate piece of paper that you will turn in at the end of the hour.

You may work with a partner or on your own. Please staple your answers to questions A, B, and C to this packet and turn into the tray when completed.

Turn this page over for a hint to get started with Question A.

Hint to get started with Question A:

Crystal wants to calculate costs quickly for many different numbers of chewy fruit worms. Copy and complete the rate table below with prices for each of the numbers of chewy fruit worms.

Number of worms	1	5	10	15	30	90	150	180
Reduced Price	.10				\$3			

If we know the cost of 30 fruit worms is \$3 we can easily figure out the cost of 1 fruit worm.

We need to find an equivalent ratio

$$\frac{30}{3} = \frac{1}{?}$$

We divided the numerator by 30, so we must do the same with the denominator.

3 divided by 30 = .10 , which in this case means each worm cost .10 (10 cents). Now you can fill in the rest of the table.

To fill in the rest of the table ask yourself, if 1 worm cost .10 (10 cents)...how much would 5 worms cost?

