

5th Grade Unit 3 Real World Experience
Teacher Directions

Complete Task 1 after Topic 1.
Complete Task 2 after Topic 2.
Complete Task 3 after Topic 3.
Complete Task 4 after Topic 4.

Scenario: The Woodridge Food Pantry is planning to start the school year with "Back to School" packs that are filled with school supplies. The pantry needs your help in putting together the "Back to School" packs for 73 families.

The Pantry also is planning a "Back to School" celebration that would help kick off the new school year. You will help the Food Pantry order and arrange tables to seat 120 children.

Task 1: Distribute equally the donated school supplies to the 73 families.
(Show all your calculations and final answers on Task 1 Student Sheet.)

Donated supplies:

Pencils - 292 boxes of pencils with 12 pencils in each box

$$292 \text{ boxes} \times 12 \text{ pencils} = 3504 \text{ pencils}$$

$$3504 \text{ pencils} \div 73 \text{ families} = 48 \text{ pencils per family}$$

Folders - 365 boxes of folders with 5 folders in each box

$$365 \text{ boxes} \times 5 \text{ folders} = 1825 \text{ folders}$$

$$1825 \text{ folders} \div 73 \text{ families} = 25 \text{ folders per family}$$

Pens - 219 boxes of pens with 15 in each box

$$219 \text{ boxes} \times 15 \text{ pens} = 3285 \text{ pens}$$

$$3285 \text{ pens} \div 73 \text{ families} = 45 \text{ pens per family}$$

Pencil top erasers - 511 packages with 3 in each pack

$$511 \text{ packages} \times 3 \text{ erasers} = 1533 \text{ erasers}$$

$$1533 \text{ erasers} \div 73 \text{ families} = 21 \text{ erasers per family}$$

Boxes of crayons - There are as many boxes of crayons as there are full days in the year.

$$365 \text{ boxes of crayons} \div 73 \text{ families} = 5 \text{ boxes per family}$$

Task 2: If the school supplies are not distributed equally per family, what are some other ways they could be distributed to the 73 families? Write an explanation about how the supplies could be distributed and which way you recommend the pantry use to distribute supplies in the future and why. Students use Task 2 Student Sheet.

Answers will vary. Students might suggest the supplies are divided per child, per request, per age, per child with a limit per family. Students need to be able to recommend an alternative way to distribute the supplies, and why they recommend that way.

Task 3: The pantry is planning a "Back to School" celebration for the children of the 73 families to kick off the new school year. There are a total of 120 students invited to the celebration. The pantry needs to order tables for this event. The tables need to have an equal number of people at each table and a maximum number of 10 children per table.

3a) On Task 3 Student Sheet, write an expression for the number of tables the pantry could order to seat the 120 children. (An expression does not include an equal sign. Be sure students recall that from their work in unit 1.)

$120 \div c$ where c is the number of children at a table

3b) On that same paper, use the expression you wrote in Task 3a to create a list of equations that show the various amounts of tables the pantry can rent in order to seat all 120 children. Find the largest number of tables that could be used as well as the smallest number of tables that could be used to seat the 120 children. (Remember that each table needs to have an equal number of children seated at it and that there is a maximum limit of 10 children per table.)

$120 \div 1 = 120$ tables (largest number of tables needed)

$120 \div 2 = 60$ tables

$120 \div 3 = 40$ tables

$120 \div 4 = 30$ tables

$120 \div 5 = 24$ tables

$120 \div 6 = 20$ tables

$120 \div 8 = 15$ tables

$120 \div 10 = 12$ tables (smallest number of tables needed)

The students can use either circular or rectangular shaped tables for tables, their choice. The student may also choose both types of tables.

Task 4: The pantry will rent chairs and tables from a company which charges \$14 per table and \$12 per chair. The pantry only has \$1700 to spend on the rentals. The rental company has both circular and rectangular tables. The students can choose one or both types of tables.

This is the task that is evaluated and entered into Skyward You will need to talk with your LRC Director to help you with Task 4b and 4c!

4a) How many tables do you recommend the pantry rent for the event? Why do you make this recommendation?

Recommendation of 12 tables:

\$12 per chair \times 120 chairs = \$1440

\$14 per table \times 12 tables = \$168

\$1440 + \$168 = \$1608

Recommendation of 15 tables

\$12 per chair \times 120 chairs = \$1440

\$14 per table \times 15 tables = \$210

\$1440 + \$210 = \$1650

Either recommendation is correct, as long as the student is below the threshold of \$1700.

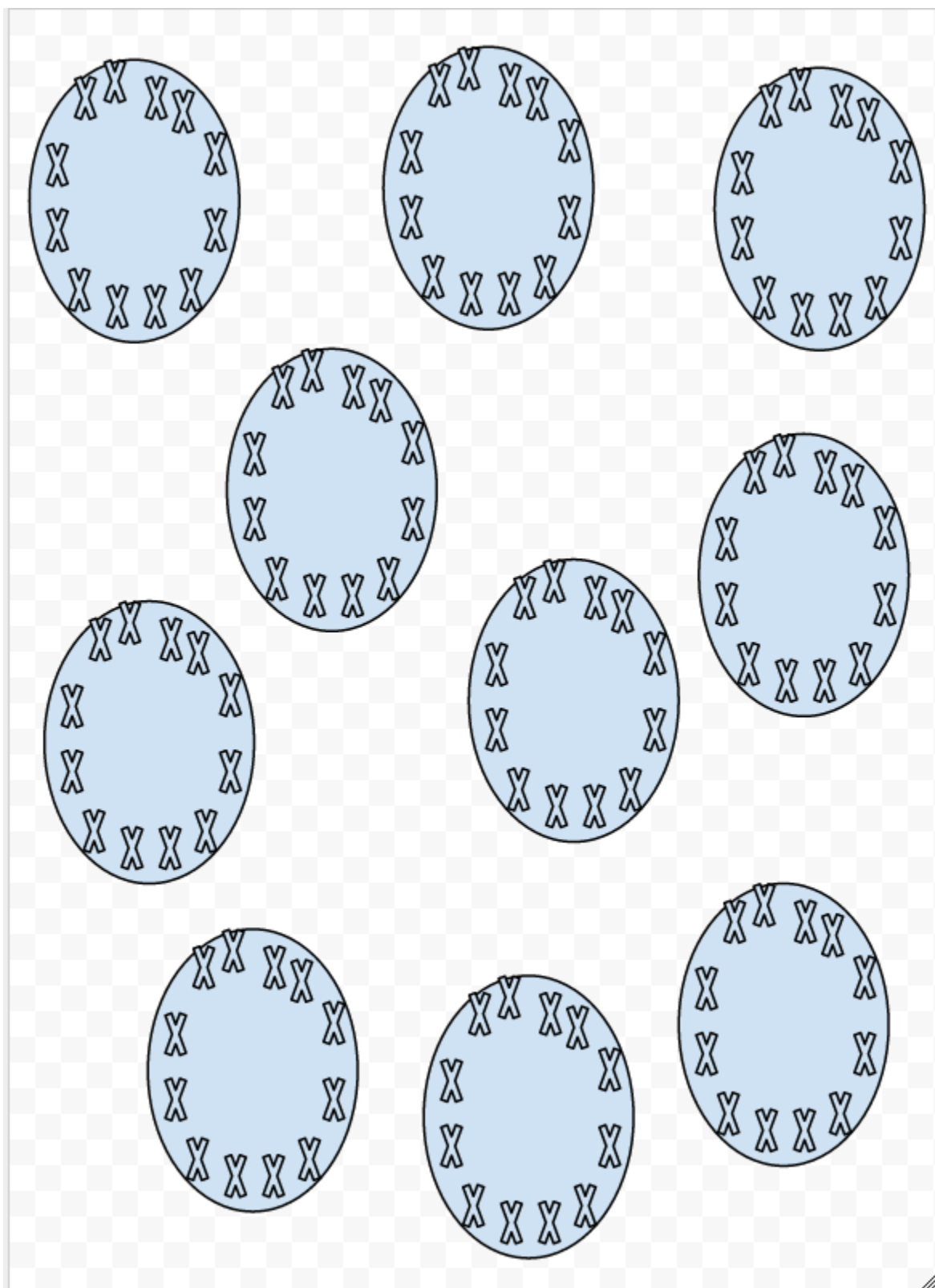
4b) Use Google Draw and develop a diagram showing how you would arrange the amount of tables you recommend. (SEE ATTACHED EXAMPLE)

PLEASE TALK WITH YOUR LRC DIRECTORS TO HELP YOU WITH THIS! You can do this during your lab time.

4c) Use Gmail and write an email your teacher that will be forwarded to the Woodridge Pantry informing them of your recommendation. Attach the diagram from Google Draw that illustrates your recommendation.

Students will send you their email and their diagram as a PDF. Talk with the LRC Director to help you with this!

Example Diagram:



Scoring Guide 5th Grade Unit 3 RWE

Name: _____

Meeting	<ul style="list-style-type: none">○ Writes an email○ States accurate recommendation○ Explains why they make the recommendation○ Shows calculations for amount for chairs○ Shows calculations for amount for tables○ Shows calculations for the total amount for both tables and chairs○ Includes a diagram which shows table arrangement
Developing	<ul style="list-style-type: none">○ Meets 5 of 7 of the proficient criteria
Beginning	<ul style="list-style-type: none">○ Meets less than 5 of the proficient criteria <p>Task to be repeated after re-teaching</p>
Comments:	

Getting Ready for School!



The Woodridge Food Pantry is planning to start the school year with "Back to School" packs that are filled with school supplies. The pantry needs your help in putting together the "Back to School" packs for 73 families.

The Pantry also is planning a "Back to School" celebration that would help kick off the new school year and distribute the packs with the school supplies. You will be helping the Food Pantry order and arrange tables to seat 120 children.

Task 1: Equally distribute the donated school supplies to the 73 families. Use Task 1 Student Sheet. *(Show all your calculations.)*

Donated supplies:

Pencils - 292 boxes of pencils with 12 pencils in each box

Folders - 365 boxes of folders with 5 folders in each box

Pens - 219 boxes of pens with 15 in each box

Pencil top erasers - 511 packages with 3 in each pack

Boxes of crayons - There are as many boxes of crayons as there are full days in the year

Task 2: If the school supplies are not distributed equally per family, what are some other ways they could be distributed to the 73 families? Write an explanation about how the supplies could be distributed and which way you recommend the pantry use to distribute supplies in the future and why. Students use Task 2 Student Sheet.

Task 3: The pantry is planning a "Back to School" celebration for the children of the 73 families to kick off the new school year. There are a total of 120 students invited to the celebration. The pantry needs to order tables for this event. The rental agency has both rectangular and circular tables. Each table must have an equal number of children and have a maximum of 10 children.

3a) On Task 3 Student Sheet, write an expression for the number of tables the pantry could order to seat the 120 children.

3b) On that same sheet, use the expression you wrote in **Task 3a** to create a list of equations that show the different amounts of tables the pantry can rent in order to seat all 120 children. Find the largest number of tables that could be used as well as the smallest number of tables that could be used to seat the 120 children. (Remember, each table must have an equal number of children and have a maximum of 10 children.)

Task 4: The pantry will rent chairs and tables from a company which charges \$14 per table and \$12 per chair. The pantry only has \$1700 to spend on the rentals. Use the Task 4 Student Sheet.

4a) How many tables do you recommend the pantry rent for the event? Explain why you are making this recommendation.

4b) Use Google Draw and draw a diagram showing how you would arrange the amount of tables you recommend.

4c) Use Gmail and write an email to your teacher which will be forwarded to the Woodridge Pantry informing them of your recommendation. Include a diagram that illustrates your recommendation.

Task 1 Student Sheet

Name: _____

Equally distribute the donated school supplies to the 73 families. *(Show all your calculations.)*

Donated supplies:

Pencils - 292 boxes of pencils with 12 pencils in each box

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Pens - 219 boxes of pens with 15 in each box

Pencil top erasers - 511 packages with 3 in each pack

Boxes of crayons - There are as many boxes of crayons as there are full days in the year

Task 2 Student Sheet

Name: _____

If the school supplies are not distributed equally per family, what are some other ways they could be distributed to the 73 families? Write an explanation about the various ways the Pantry could distribute the supplies. Include your recommendation and an explanation for your recommendation.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Task 3 Student Sheet

Name: _____

The pantry is planning a "Back to School" celebration for the children of the 73 families to kick off the new school year. There are a total of 120 students invited to the celebration. The pantry needs to order tables for this event. The rental agency has both rectangular and circular tables. Each table must have an equal number of children and have a maximum of 10 children.

3a) Write an expression for the number of tables the pantry could order to seat the 120 children.

3b) Use the expression to create a list of equations that show the different amounts of tables the pantry can rent in order to seat all 120 children. Find the largest number of tables that could be used as well as the smallest number of tables that could be used to seat the 120 children. (Remember, each table must have an equal number of children and have a maximum of 10 children.)

Task 4 Student Sheet

Name: _____

The pantry will rent chairs and tables from a company which charges \$14 per table and \$12 per chair. The pantry only has \$1700 to spend on the rentals.

4a) How many tables do you recommend the pantry rent for the event? Why do you make that recommendation?

4b) Use Google Draw and make a diagram showing how you would arrange the amount of tables you recommend.

4c) Use your Gmail to send an email to your teacher explaining your proposal for the Woodridge Food Pantry informing them of your recommendation and why you are making that recommendation. Include your Google Draw diagram as an attachment.