

Focus & Within Grade Coherence

Task Handout, Grade 3

Major Task #1

Many problems can be solved in different ways. Decide if the following word problems can be solved using multiplication. Explain your thinking. Then solve each problem.

- a. Liam is cooking potatoes. The recipe says you need 5 minutes for every pound of potatoes you are cooking. How many minutes will it take for Liam to cook 12 pounds of potatoes?
- b. Mel is designing cards. She has 4 different colors of paper and 7 different pictures she can glue on the paper. How many different card designs can she make using one color of paper and one picture?
- c. Nina can practice a song 6 times in an hour. If she wants to practice the song 30 times before the recital, how many hours does she need to practice?
- d. Owen is building a rectangular tile patio that is 4 tiles wide and 6 tiles long. How many tiles does he need?

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Major Task #2

Mrs. Moore's third grade class wants to go on a field trip to the science museum. * The cost of the trip is \$245. * The class can earn money by running the school store for 6 weeks. * The students can earn \$15 each week if they run the store. 1. How much more money does the third grade class still need to earn to pay for their trip? 2. Write an equation to represent this situation.

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Supporting Task #1

Delilah stops under a silver maple tree and collects leaves. At home, she measures the widths of the leaves to the nearest $\frac{1}{4}$ inch and records the measurements as shown below.

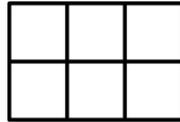
Widths of Silver Maple Tree Leaves (in Inches)				
$5\frac{3}{4}$	6	$6\frac{1}{4}$	6	$5\frac{3}{4}$
$6\frac{1}{2}$	$6\frac{1}{4}$	$5\frac{1}{2}$	$5\frac{3}{4}$	6
$6\frac{1}{4}$	6	6	$6\frac{1}{2}$	$6\frac{1}{4}$
$6\frac{1}{2}$	$5\frac{3}{4}$	$6\frac{1}{4}$	6	$6\frac{3}{4}$
6	$6\frac{1}{4}$	6	$5\frac{3}{4}$	$6\frac{1}{2}$

- Use the data to create a line plot below.
- Explain the steps you took to create the line plot.
- How many more leaves were 6 inches wide than $6\frac{1}{2}$ inches wide?
- Find the three most frequent measurements on the line plot. What does this tell you about the typical width of a silver maple tree leaf?

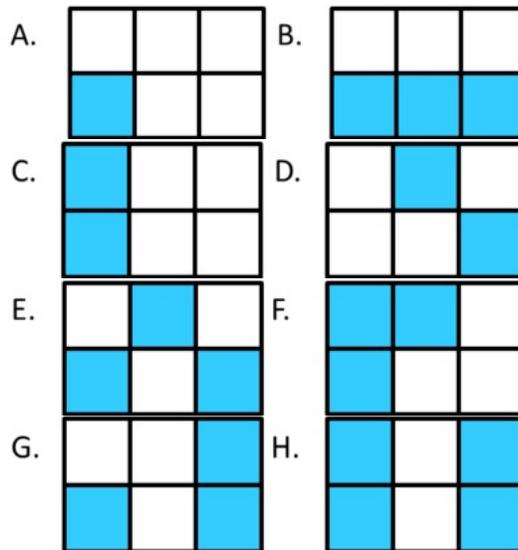
Source: EngageNY.org of the New York State Education Department. Grade 3 Mathematics, Module 6, Lesson 8. Available from <https://www.engageny.org/resource/grade-3-mathematics-module-6-topic-b-lesson-8/file/35606> accessed 10 June 2016.

Within Grade Coherence Task #1

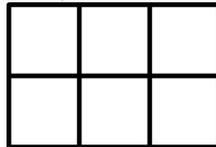
a. A small square is a square unit. What is the area of this rectangle? Explain.



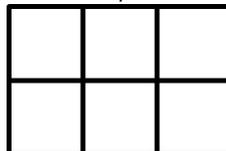
b. What fraction of the area of each rectangle is shaded blue? Name the fraction in as many ways as you can. Explain your answers.



c. Shade $\frac{1}{2}$ of the area of rectangle in a way that is different from the rectangles above.



d. Shade $\frac{2}{3}$ of the area of the rectangle in a way that is different from the rectangles above.



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Within Grade Coherence Task #2

Your teacher was just awarded \$1,000 to spend on materials for your classroom. She asked all 20 of her students in the class to help her decide how to spend the money. Think about which supplies will benefit the class the most.

Supplies	Cost
A box of 20 markers	\$5
A box of 100 crayons	\$8
A box of 60 pencils	\$5
A box of 5,000 pieces of printer paper	\$40
A package of 10 pads of lined paper	\$15
A box of 50 pieces of construction paper	\$32
Books and maps	
A set of 20 books about science	\$250
A set of books about the 50 states	\$400
A story book (there are 80 to choose from)	\$8
A map: there is one of your city, one for every state, one of the country, and one of the world to choose from	\$45
Puzzles and games	
Puzzles (there are 30 to choose from)	\$12
Board games (there are 40 to choose from)	\$15
Interactive computer games (math and reading)	\$75
Special Items	
A bean bag chair for the reading corner	\$65
A class pet	\$150
Three month's supply of food for a class pet	\$55
A field trip to the zoo	\$350

- Write down the different items and how many of each you would choose. Find the total for each category.
 - Supplies
 - Books and maps
 - Puzzles and games
 - Special items
- Create a bar graph to represent how you would spend the money. Scale the vertical axis by \$100. Write all of the labels.
- What was the total cost of all your choices? Did you have any money left over? If so, how much?
- Compare your choices with a partner. How much more or less did you choose to spend on each category than your partner? How much more or less did you choose to spend in total than your partner?

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