MATH GRADE 7

Spring Break Learning

March 10-14

2025

The Department of Curriculum & Instruction

Seventh Grade Standards-Aligned Tasks

Hello Students,

This resource packet includes multiple tasks that you can complete during Spring Break. The activities are aligned to the TN Academic Standards for Mathematics and will provide additional practice opportunities for students to develop and demonstrate their knowledge and understanding.

A suggested pacing guide is included; however, students can complete the activities in any order over the course of several days. Below is a table of contents which lists each activity.

Table of Contents

Day One	
Buying Coffee	
Grade Level Standard(s)	7.RP.A.2 Recognize and represent proportional relationships between quantities.
Teacher Support Option	Your student may need to review what proportional relationships are and how to determine the constant of proportionality.
Materials Needed	Paper, pencil
Question to Explore	What is the relationship between unit rate and constant of proportionality?
Student Directions	Use your knowledge of proportional relationships and unit rates to determine the solution of the given task.

Student Instructional Task:

Buying Coffee

Buying Coffee

Coffee costs $18.96 for 3 pounds.

a. What is the cost for one pound of coffee?

b. At this store, the price for a pound of coffee is the same no matter how many pounds you buy. Let be the number of pounds of coffee and be the total cost of pounds. Draw a graph of the relationship between the number of pounds of coffee and the total cost.

c. Where can you see the cost per pound of coffee in the graph? What is it?

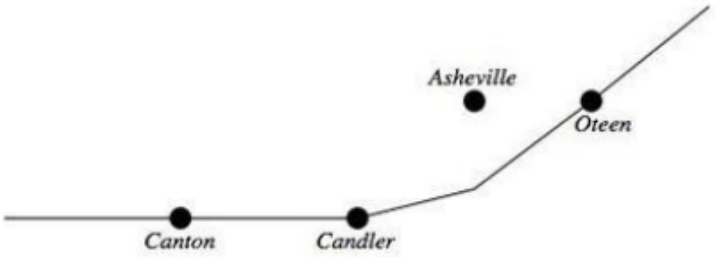
Day Two	
Map Distance	
Grade Level Standard(s)	7.G.A.1 Solve problems involving scale drawings of congruent and similar geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.
Teacher Support Option	The purpose of this task is for students to translate between information provided on a map that is drawn to scale and the distance between two cities represented on the map.
Materials Needed	Paper, pencil, calculator
Question to Explore	How can I use scale drawings to compute actual lengths and area?
Student Directions	Apply your knowledge of scale drawing and scale factor to solve the given task.

Student Instructional Task:

Map Distance

Map Distance

On the map below, $\frac{1}{4}$ inch represents one mile. Candler, Canton, and Oteen are three cities on the map.



a. If the distance between the real towns of Candler and Canton is 9 miles, how far apart are Candler and Canton on the map?

b. If Candler and Oteen are $3\frac{1}{2}$ inches apart on the map, what is the actual distance between Candler and Oteen in miles?

Day Three	
Sports Equipment Set	
Grade Level Standard(s)	7.EE.B.4b Solve contextual problems leading to inequalities of the form px + q > r or px + q < r, where p, q, and r are specific rational numbers. Graph the solution set of the inequality on a number line and interpret it in the context of the problem. (Note that inequalities using >, <, > , and < are included in this standard.) For example: As a salesperson, you are paid $50 per week plus $3 per sale. This week you want your pay to be at least $100. Write an inequality for the number of sales you need to make, and describe the solutions.
Teacher Support Option	You may want to review and model developing and solving contextual problems using linear equations and inequalities of the form px + q = r, px + q > r, and/ or px + q < r. You may also want to review the graphs that represent these equations.
Materials Needed	Paper, pencil, space to work
Question to Explore	How can you use equations and inequalities to solve real-life problems? How do you use number lines and graphs to represent these equations?
Student Directions	Use your knowledge of equations and inequalities to represent, write, and solve the given task.

Student Instructional Task:

Sports Equipment Set

7.EE Sports Equipment Set

Task

Jonathan wants to save up enough money so that he can buy a new sports equipment set that includes a football, baseball, soccer ball, and basketball. This complete boxed set costs $50. Jonathan has $15 he saved from his birthday. In order to make more money, he plans to wash neighbors' windows. He plans to charge $3 for each window he washes, and any extra money he makes beyond $50 he can use to buy the additional accessories that go with the sports box set.

Write and solve an inequality that represents the number of windows Jonathan can wash in order to save at least the minimum amount he needs to buy the boxed set. Graph the solutions on the number line. What is a realistic number of windows for Jonathan to wash? How would that be reflected in the graph?