



MATH GRADE 6

SPRING BREAK LEARNING

MARCH 10-14

2025

**The Department of
Curriculum & Instruction**

Sixth Grade Standards-Aligned Tasks

Hello Students,

This resource packet includes multiple tasks that you can work on during Spring Break. Each task can be in any order.

All of these resources are grade-specific and aligned to the Tennessee State Standards for Mathematics.

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Day 1

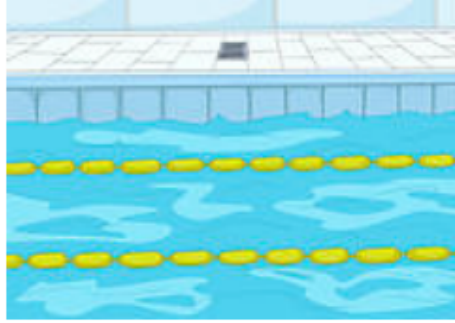
Expressions and Swimming Laps

Grade Level Standard(s)	6.EE.B.6 Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.
Teacher Support	Your student may not be able to figure out what values make sense in the context. Ask the following questions to help guide their thinking. <ul style="list-style-type: none">• What is the variable representing?• What values make sense for the number of laps a person could swim?
Materials Needed	Paper, pencil
Question to Explore	How can you use expressions to represent real-world context?
Student Directions	Use your knowledge of variables and writing expressions to answers the parts of the given task.

Student Instructional Task:

Expressions and Swimming Laps

Expressions and Swimming Laps



Timothy and Lee are swimming laps at your school's 25-meter pool. They time each other swimming one lap and find that Timothy swims a lap in 27.24 seconds, while Lee takes 25.67 seconds.

- a) How would you express the time it would take Timothy to swim any number of laps? How would you express the time it would take Lee to swim any number of laps?
- b) Give examples of types of numbers that could reasonably be substituted in for the variable(s) you used in Part a). Explain your answers.

Day Two

Chocolate Bar Sales

Grade Level Standard(s)	6.EE.C.9 Use variables to represent two quantities in a real-world problem that change in relationship to one another. For example, Susan is putting money in her savings account by depositing a set amount each week (\$50). Represent her savings account balance with respect to the number of weekly deposits ($s = 50w$, illustrating the relationship between balance amount s and number of weeks w)
Teacher Support	You may want to review the definitions of dependent and independent variables with your student.
Materials Needed	Paper, pencil, space to work
Question to Explore	What different representations can be used to analyze and solve the relationship between two quantities in a real world problem?
Student Directions	Use your knowledge of ways in which to represent real-world scenarios with mathematical representations.

Student Instructional Task:

Chocolate Bar Sales

Chocolate Bar Sales

Stephanie is helping her band collect money to fund a field trip. The band decided to sell boxes of chocolate bars. Each bar sells for \$1.50 and each box contains 20 bars. Below is a partial table of monies collected for different numbers of boxes sold.

Boxes Sold	Money Collected
b	m
1	\$30.00
2	
3	
4	
5	\$150.00
6	
7	
8	

- a. Complete the table above for values of m .

- b. Write an equation for the amount of money, m , that will be collected if b boxes of chocolate bars are sold. Which is the independent variable and which is the dependent variable?

- c. Graph the equation using the ordered pairs from the table above.

- d. Calculate how much money will be collected if 100 boxes of chocolate bars are sold.

- e. The band collected \$1530.00 from chocolate bar sales. How many boxes did they sell?

Day Three

Wallpaper Decomposition

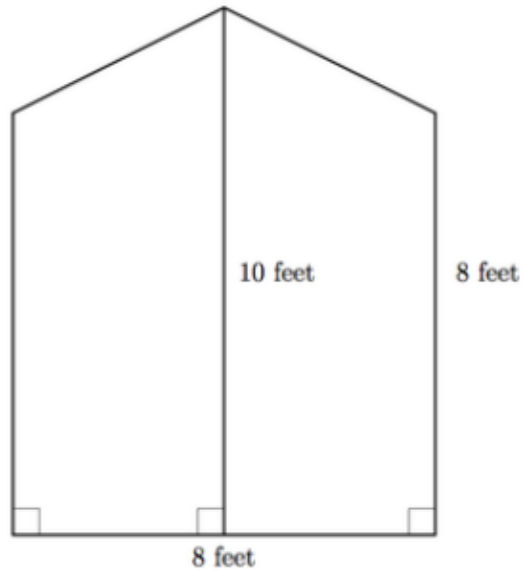
Grade Level Standard(s)	6.G.A.1 (Supporting Content) Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; know and apply these techniques in the context of solving real-world and mathematical problems.
Teacher Support	Your student may need help decomposing the figure into its composite shapes.
Materials Needed	Paper, pencil, space to work
Question to Explore	How can decomposing a figure help you calculate its area?
Student Directions	Experiment with composition and decomposition of polygons to examine shapes in the given task.

Student Instructional Task:

Wallpaper Decomposition

Wallpaper Decomposition

Jamie is planning to cover a wall with red wallpaper. The dimensions of the wall are shown below:



- How many square feet of wallpaper are required to cover the wall?
- Wallpaper comes in long rectangular strips which are 24 inches wide. If Jamie lays the strips of wallpaper vertically, can she cover the wall without wasting any wallpaper? Explain.
- If Jamie lays the strips of wallpaper horizontally, can she cover the wall without wasting any wallpaper? Explain.