Unit 6, Lesson 24

Solve Problems with Many Operations

Let's solve multi-step problems involving the four operations.

Warm-up

True or False: Differences

Decide if each statement is true or false. Be prepared to explain your reasoning.

- $50{,}000 - 999 = 49{,}001$

- $4{,}799 = 5{,}000 - 311$

- $3{,}005 = 4{,}000 - 1{,}995$

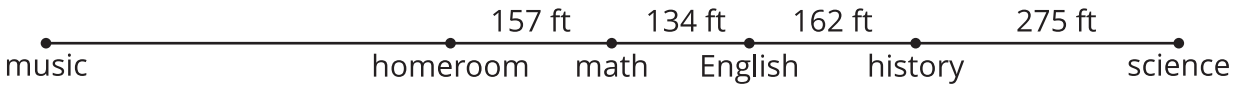
- $2{,}000 - 1{,}234 = 1{,}876$

Activity 1

Back and Forth

Mai's cousin is in middle school. She travels from her homeroom to math, then English, history, and science. When she finishes her science class, she takes the same path back to her homeroom.

Mai's cousin makes the same trip 5 times each week. The distances between the classes are shown.



1. How far does Mai's cousin travel each round trip—from her homeroom to the 4 classes and back? Write one or more expressions or equations to show your reasoning.

2. Each week, Mai's cousin makes 3 round trips from her homeroom to her music class. The total distance traveled on those 3 round trips is 2,364 feet.

   How far away is the music room from her homeroom? Explain or show your reasoning.

3. Mai thinks her cousin travels 2 miles each week just going between classes. Do you agree? Explain or show your reasoning.

Activity 2

Fitness Challenge

Han's school holds a fitness challenge with prizes to motivate students to exercise.



1. Han walks 32,550 steps in the first week. He walks the same number of steps every day. How many steps does Han walk each day? Explain or show your reasoning.

2. The table shows the number of steps Han takes each week for the first 3 weeks. How much does the number of steps drop from the first week to the second week?

week 1	week 2	week 3	week 4
32,550	28,098	36,249	

3. If Han wants to meet the challenge, what is the fewest number of steps that he needs to take in week 4? Explain or show your reasoning.

4. How do you know your answer to the third problem is reasonable?