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Grade 5, Unit 4, Section C: Additional Practice Problems

1. There are 6,159 students in a school who fill water bottles at the filling station each day. If each water bottle is about 16 ounces, about how much water do the students use each day? Explain or show your reasoning.

(From Unit 4, Lesson 18.)

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2. Match the dimensions with similar areas to the national parks.

- | | |
|---|---|
| <p>a. Death Valley National Park 5,270 square miles</p> | <ul style="list-style-type: none"> ● 40 miles by 50 miles |
| <p>b. Glacier National Park: 1,583 square miles</p> | <ul style="list-style-type: none"> ● 54 miles by 63 miles |
| <p>c. Yellowstone National Park: 3,471 square miles</p> | <ul style="list-style-type: none"> ● 89 miles by 92 miles ● 138 miles by 36 miles |

(From Unit 4, Lesson 19.)

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3. a. Which shipping container would hold a volume of 1,920 cubic feet? Explain or show your reasoning.
- A. 37 feet long, 5 feet wide, 9 feet tall
 - B. 28 feet long, 6 feet wide, 9 feet tall
 - C. 20 feet long, 5 feet wide, 10 feet tall
 - D. 24 feet long, 8 feet wide, 10 feet tall

CHALLENGE:

- b. Shipping containers that are 24 feet long, 8 feet wide, and 10 feet tall are stacked in a storage facility. Which storage facility dimensions could hold at least 36 of these shipping containers?
- A. 75 feet long, 26 feet wide, 42 feet tall
 - B. 57 feet long, 18 feet wide, 32 feet tall
 - C. 60 feet long, 24 feet wide, 32 feet tall
 - D. 78 feet long, 13 feet wide, 41 feet tall

(From Unit 4, Lesson 20.)

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4. EXPLORATION

The Empire State Building has about 86 floors with about 19 stairs per floor.

a. There are 34 stairs in front of Diego's school. About how many times would he need to walk up the stairs at school to equal the same number of stairs he would take to the top of the Empire State Building?

b. If it takes Diego 38 seconds to climb up the stairs at school, how long do you think it will take him to get to the top of the Empire State Building?

c. Find a set of stairs in your home/school/community. How many times would you need to walk up those stairs to equal the number of stairs from the bottom to top of the Empire State Building?