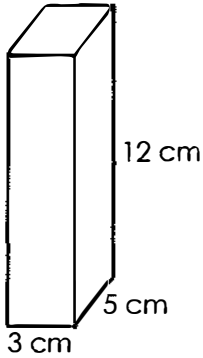


Name: _____

Volume of a Rectangular Prism



To find the volume of a rectangular prism, multiply the length by the width by the height.

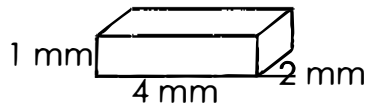
$$V = l \times w \times h$$

$$V = 3 \text{ cm} \times 5 \text{ cm} \times 12 \text{ cm}$$

$$V = 180 \text{ cm}^3$$

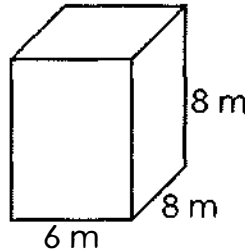
Calculate the volume of each rectangular prism. Be sure to include units in your answer.

a.



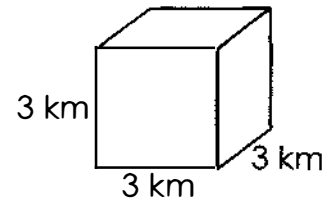
$V =$ _____

b.



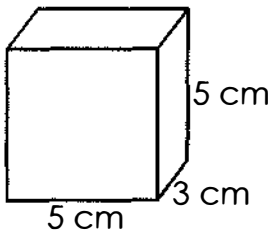
$V =$ _____

c.



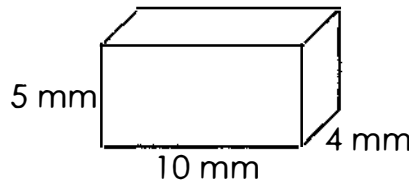
$V =$ _____

d.



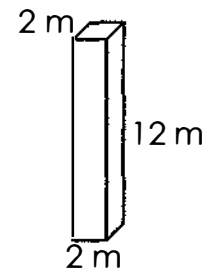
$V =$ _____

e.



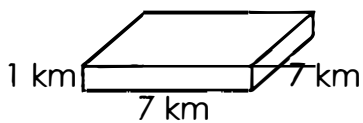
$V =$ _____

f.



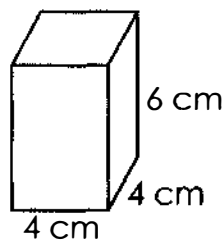
$V =$ _____

g.



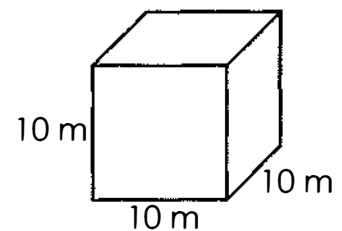
$V =$ _____

h.



$V =$ _____

i.



$V =$ _____

Name: _____

Crossing the Delaware River

General George Washington knew there was a group of British soldiers in Trenton, New Jersey. He also knew that the soldiers were likely to attack the city of Philadelphia. Washington had an idea that could save the city and the people that lived there.

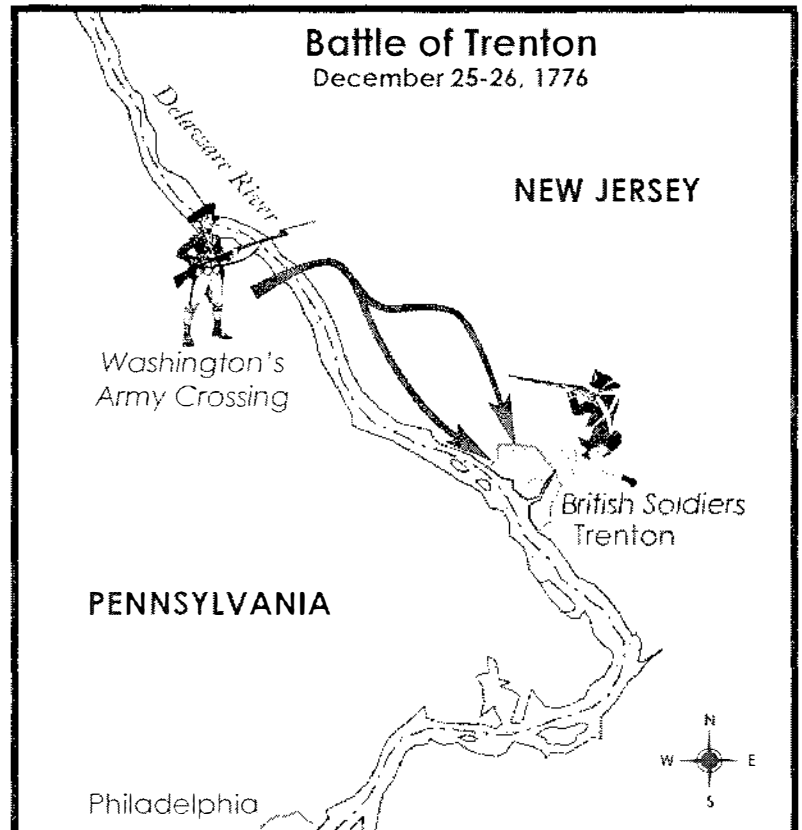
On Christmas night, in 1776, Washington and 2,500 of his men boarded small boats and crossed the Delaware River. It was a snowy day, the river was filled with ice, and his troops were cold and tired.

Washington and his men snuck up on the British soldiers and attacked while they were sleeping. Twenty-two British soldiers were killed, and another 900 were taken prisoner. Two Americans were also killed that day. This sneak attack became known as the Battle of Trenton.

It was a major victory for the American Continental Army and it raised their morale.



In 1851, Emanuel Leutze painted this picture of Washington and his troops crossing the Delaware River.



Name: _____

Crossing the Delaware River

- Why did Washington's Army attack sleeping soldiers in Trenton?
 - Washington feared they would cross the river into New York.
 - Washington needed their food and weapons for his men.
 - Washington knew they were going to attack Philadelphia.
 - Washington did not like the people that lived in New Jersey.
- In which direction did Washington's army travel after crossing the Delaware River.
 - southeast
 - southwest
 - northwest
 - northeast
- Before the attack on Trenton, Washington and his men were...
 - south of Philadelphia
 - north of Philadelphia
 - east of Philadelphia
 - in Philadelphia
- During what season did the Battle of Trenton take place?
 - summer
 - autumn
 - spring
 - winter
- How many soldiers crossed the Delaware River with Washington? _____
- How many British soldiers lost their lives in the Battle of Trenton? _____
- How many American soldiers lost their lives in the Battle of Trenton? _____
- When did Emanuel Leutze paint a picture of Washington and his troops crossing the Delaware River?
 - 25 years after it happened
 - 50 years after it happened
 - 75 years after it happened
 - 90 years after it happened

Name _____

Day 3 *Weekly Question*
What puts the fizz in soda?



Soda is more than just a mixture of liquid and gas. It is also a **solution**, meaning it is a liquid that contains substances that have been dissolved. Soda is made mostly of water, which can dissolve many substances. Carbon dioxide gas, for instance, is **soluble** in water. Soft drinks also contain dissolved solids, such as sugar.

Not all substances are soluble in water. For example, oil does not dissolve well in water. So when you shake a bottle of salad dressing that contains oil, water, and vinegar, the liquids mix together only temporarily. After a while, the oil separates from the vinegar and water and floats to the top of the liquid mixture.

Vocabulary

soluble
 SOL-yoo-bul
 able to be dissolved

solution
 suh-LOO-shun
 a mixture, usually liquid, in which all the components are mixed evenly

A. *Solubility* is a physical property. The table below shows the solubility of various substances in water. The higher the number, the more soluble the substance is. Use this information to answer the questions.

	Solubility (per gram of water)
Oxygen	0.0000434 gram
Carbon dioxide	0.00145 gram
Sugar	2.0 grams
Salt	0.36 gram

1. Which substance dissolves best in water? _____
2. Which gas dissolves more easily in water—oxygen or carbon dioxide? _____
3. Which substance is the least soluble in water? _____

B. If you mixed peanut butter with water, do you think it would make a solution? Explain why or why not.
