

LESSON 27: Real-World Application Involving Area, Volume, and Surface Area

Homework

.....

Name _____ **Date** _____

Directions: Complete the SOLVE problems using what you have learned about missing dimensions.

The art club is painting a mural. Each member of the club gets a rectangular piece of the mural that has an area of 34 square feet. If the length of each piece is 8 feet, how tall is each piece of the mural?

S Underline the question.
 This problem is asking me to find _____
 _____.

O Identify the facts.
 Eliminate the unnecessary facts.
 List the necessary facts.

L Write in words what your plan of action will be.

Choose an operation or operations.

V Estimate your answer.
 Carry out your plan.

E Does your answer make sense? (Compare your answer to the question.)

Is your answer reasonable? (Compare your answer to the estimate.)

Is your answer accurate? (Check your work.)

Write your answer in a complete sentence.

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Mary bought a storage bin that says it can hold 9 cubic feet of materials. She wants to know if the bin will fit in her closet, but some of the label with the dimensions on it has been torn off. She knows that the length of the bin is 3 feet, and the width is 2 feet. What is the height of the bin?

S Underline the question.
This problem is asking me to find _____.

O Identify the facts.
Eliminate the unnecessary facts.
List the necessary facts.

L Write in words what your plan of action will be.

Choose an operation or operations.

V Estimate your answer.
Carry out your plan.

E Does your answer make sense? (Compare your answer to the question.)

Is your answer reasonable? (Compare your answer to the estimate.)

Is your answer accurate? (Check your work.)

Write your answer in a complete sentence.