

LESSON 27: Volume of Complex Figures: Word Problems

Homework

Name _____ Date _____

Directions: Complete the SOLVE process for both word problems.

Jennifer has just received a new purse as a present. The purse has two zippered compartments. Both compartments are rectangular prisms. The bigger compartment is 25 cm long by 8 cm wide and 12 cm tall. The smaller compartment is 25 cm long by 4 cm wide and 12 cm tall. How many cubic cm of space does Jennifer have in her new purse?

1. **S** – Underline the question.
This problem is asking me to find _____
_____.
2. **O** – Identify the facts.
Eliminate the unnecessary facts.
List the necessary facts.
3. **L** – Choose an operation or operations.
Write in words what your plan of action will be.
4. **V** – Estimate your answer.
Carry out your plan.
5. **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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Sujan has a plastic container that he uses for his change. The container is split into two rectangular sections. He uses one section for quarters and the other section for dimes, nickels, and pennies. The quarter section has a base area of 42 cm^2 and a height of 6 cm. The other coin section has a base area of 36 cm^2 and a height of 6 cm. How many cubic centimeters of coins can Sujan hold in his container?

6. S – Underline the question.

This problem is asking me to find _____
_____.

7. O – Identify the facts.

Eliminate the unnecessary facts.

List the necessary facts.

8. L – Choose an operation or operations.

Write in words what your plan of action will be

9. V – Estimate your answer.

Carry out your plan.

10. 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.