

Problem-Solving Decisions: Estimated or Exact Answer?

Use the questions to help you solve.

1. Norma wants to paint her basement. Her friend gives her half a gallon of paint. Norma knows that 1 gallon of paint covers about 400 square feet. Her basement walls are about 562 square feet in area. Should Norma buy an additional half a gallon of paint, 1 gallon, or 2 gallons?

UNDERSTAND

What decision does Norma need to make?

PLAN

Will you estimate or find an exact answer? Why?

SOLVE

How many square feet can Norma cover with the paint she already has?

About how much paint will she need to cover the remaining area?

LOOK BACK

Do you think Norma should overestimate or underestimate the amount of paint she will need? Why?

Solve.

2. Norma wants to spend no more than \$10 on supplies. She buys a paint roller for \$4.89, a foam brush for \$1.19, and a drop cloth for \$2.75. Does she have enough left to buy one more foam brush? Explain your answer.
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