

## Focus Standards and Claim

Claim 2  
6.RP.A.3.b

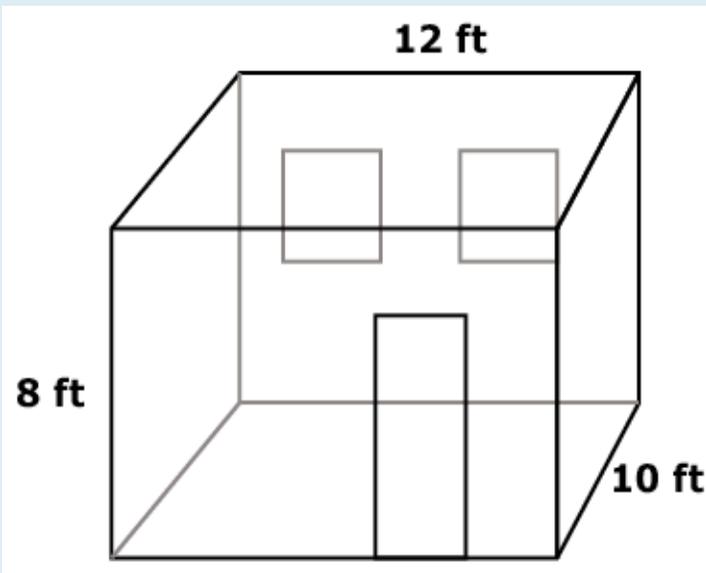
## Stimulus

### Let's Paint a Room

Your friend Sam wants to paint her room. She wants to paint the ceiling white and the four walls purple.

You are helping Sam determine the cost and the amount of time needed to paint her room.

The room is shaped like a rectangular prism with a height of 8 feet, length of 12 feet, and width of 10 feet as shown.



Additional information about Sam's room:

- The door has an area of 22 square feet.
- The room has 2 square windows.
- Each window opening is 2 feet by 2 feet.

## Item Prompt

You decide to paint your room, too.

Your room has 300 square feet of wall space to paint.

Sam says it took her 10 minutes to paint 25 square feet.

At this rate, how many **hours** would it take Sam to paint your room?

## Scoring Guide

SCORE	1 POINT	0 POINTS
	Correct response, 2.	All other responses

## Sample Responses

## Student Sample A



2

## SCORE RATIONALE

This response suggests that the student accurately coordinated time, area, and rate, and succeeded in converting units to arrive at the correct amount of time: 2 hours.

## Student Sample B



120

## SCORE RATIONALE

The response suggests that the student was able to coordinate the various quantities, but did not understand the change in units.

## Student Sample C



300

**SCORE RATIONALE**

The response suggests that the student did not understand the relationship among the various quantities and multiplied 25 and 12, which is the area of the given wall space.

## Student Sample D



2.1

**SCORE RATIONALE**

The student may have inaccurately converted the minutes into hours and minutes.