

Focus Standards and Claim

Claim 2
6.RP.A.3.b

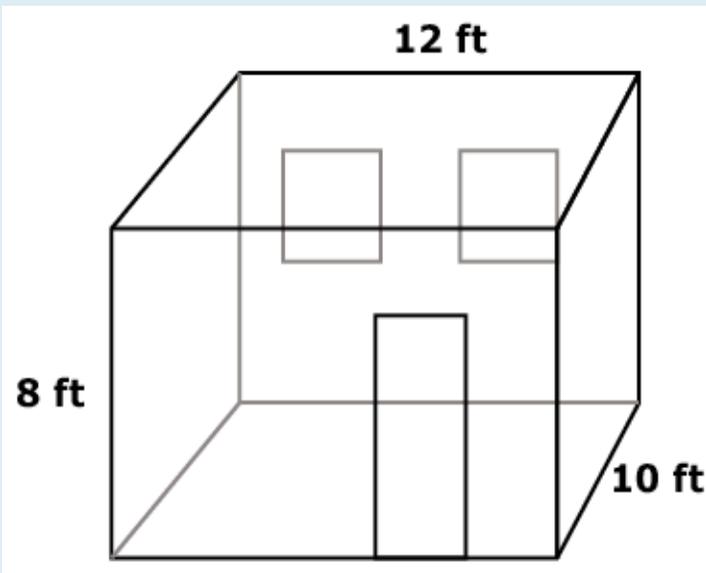
Stimulus

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?

Sample Responses

Sample Response A

120

Sample Response B

12

Sample Response C

300

Sample Response D

2.10