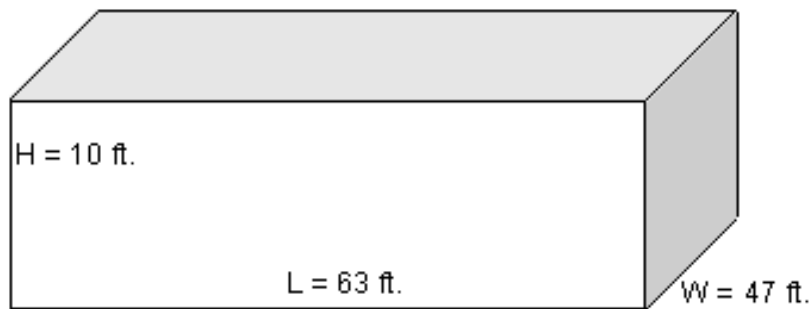


Measurements: Painter Painting & Repairs Done Right

Problem:

If paint covers 300 square feet per gallon, how many gallons will it take to paint a home with a flat roof measuring 63 feet long, 47 feet wide, and 10 feet high?

If the paint is \$17 a gallon, what will the paint cost be? (Assume no door and window areas)



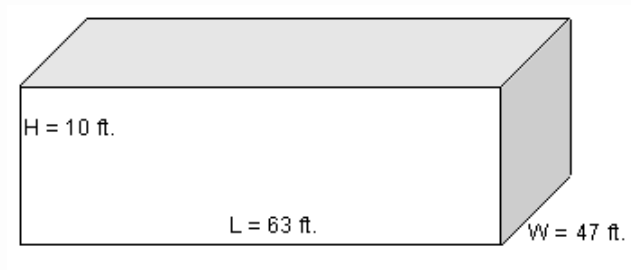
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Solution:

Gallons needed = Area of walls ÷ ft² covered by one gallon =

$$\frac{2(L \times H) + 2(W \times H)}{300} = \frac{2(63 \times 10) + 2(47 \times 10)}{300} = 7.3 \text{ gallons of paint}$$

8 gallons x \$17 = \$136 (must buy nearest full gallon)