

Paint Calculator Calculation Example

Example:

Area to be painted: 720

Answer:

Gallons only: 3 gallons

Gallons and quarts available: 2 gallons 2 quarts

Step 1: Calculate the number of whole gallons that will be used

** You may want to store this in a variable like wholeGallons, because the number of gallons needed later may change.

720 square feet / 300 = 2 gallons

That is only enough paint to cover 600 square feet because $300 * 2 = 600$.

Step 2: Number of square feet not covered by the whole gallons

** I would store this result in a variable

Method 1:

$720 - 300 * 2 = 120$ square feet

Method 2:

$720 \% 300 = 120$ square feet

Step 3: If only gallons available - Final number of gallons

The 2 gallons above would only cover 600 square feet (shown in step 1), which leaves 120 square feet of the room without paint (shown in Step 2).

The number of gallons would need to increase by 1 to cover the square feet not covered by the 2 gallons.

2 gallons (from step 1) + 1 (additional to cover the 120 square feet) = 3 (final number of gallons)

Step 4: If gallons and quarts available - Final number of gallons and quarts

The 2 gallons above would only cover 600 square feet (shown in step 1), which leaves 120 square feet of the walls without paint (shown in Step 2). Note: if pints are available, the gallons will not be increased from the calculation in step 3.

How many pints?

$120 \text{ (square feet that still need paint)} / 75 = 1$

How many square feet won't be covered by the 1 quart calculated above?

Method 1:

$120 - 75 * 1 = 45$ square feet

Method 2:

$120 \% 75 = 45$ square feet

Final quarts number:

The number of pints would need to increase by 1 to cover the 45 square feet not covered by the 1 quart.

1 pint (from earlier in this step) + 1 (additional to cover the 45 square feet) = 2 (final number of quarts)