

Rehabbers Survival Guide



The Real Estate Investors Materials Estimation Tool

Index

Contents

Introduction	3
Square Footage	4
Acreage	6
Exterior Project Estimations	8
Concrete.....	10
Roof Sheeting.....	12
Shingles	14
Paint	16
Bricks.....	18
Siding.....	20
Interior Project Estimations	22
Drywall	24
Paint	26
Subfloor.....	28
Hardwood Flooring	30
Tile Flooring.....	32
Carpet or Vinyl Flooring	34
Converting Inches to Feet	36

Rehabbers Survival Guide

Introduction

For many rehab projects it's essential to get a good estimate how much repairs and renovations will cost before investing in properties. This Rehabbers Survival Guide walks investors through calculations that otherwise can seem very difficult in the simplest and easiest way. These calculations are essential for investors to figure out the amount of materials and supplies that will be needed for most rehab projects which will allow for easy estimating of costs involved in the process.

This survival guide gives step by step instructions and easy to use plug in formulas to achieve more accurate estimates for materials and supplies. If you are a do it yourself rehabber, the Rehabbers Survival Guide is sure to be your best friend.

Because every rehab project is different, you will find over 10 different formulas for most every type of renovation a rehabber will encounter. Be sure to obtain proper work permits from your local building authority before starting any renovation projects.

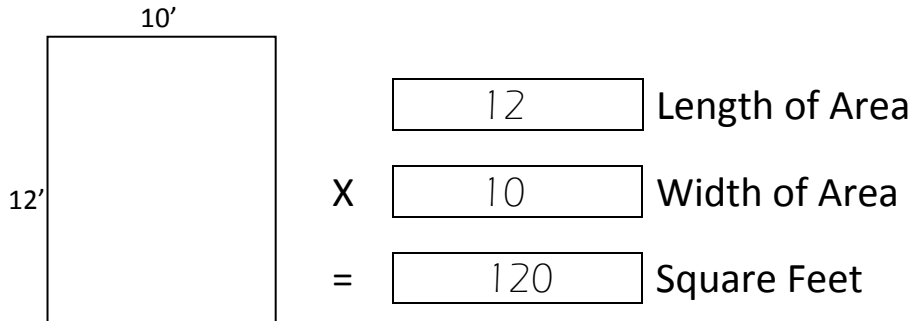
We strongly recommend adding approximately 5% to all calculations when estimating needed materials and supplies.

Square Footage

The size of a residential or commercial building is always measured in *square feet*. To determine the square footage of a room, area, or space you should use the following formula:

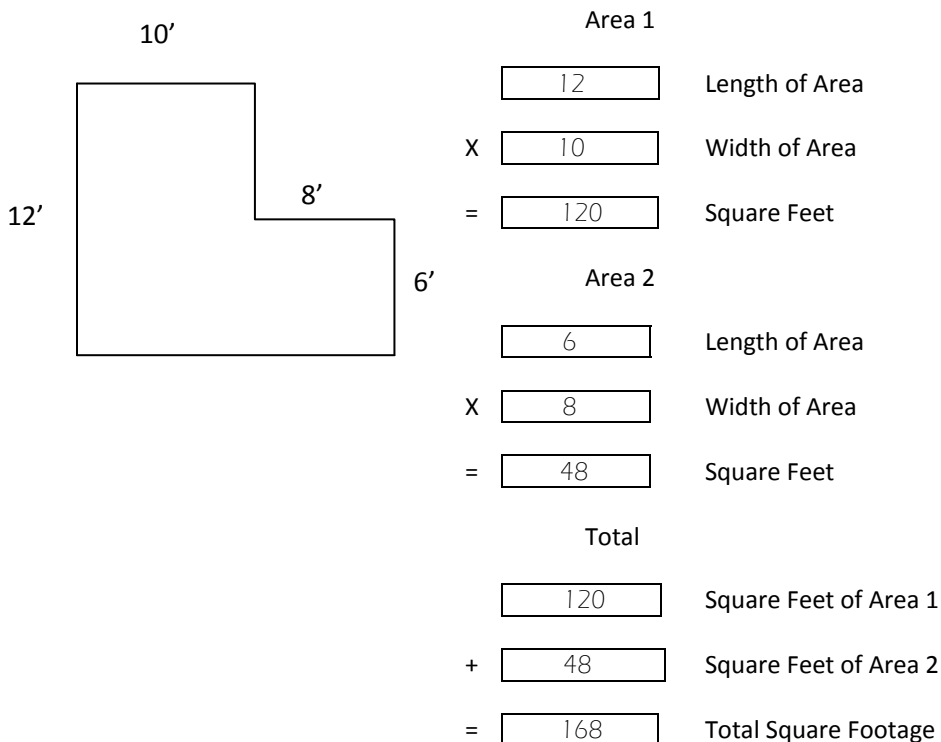
$$\text{Length} \times \text{Width} = \text{Square Footage}$$

Example: The master bedroom of a home measures 12 feet by 10 feet, to determine the square footage we would multiply 12 by 10 for 120 square feet.



To determine the square footage of multiple rooms, spaces or areas, calculate the square footage with the above formula for every space and add them together.

Example: For the diagram below, you should determine the square footage of the 10' by 12' area and the 8' by 6' area and add them together.



Square Footage Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project.

Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine how many square feet are in an area.

$$\begin{array}{r} \boxed{} \text{ Length of Area} \\ \times \boxed{} \text{ Width of Area} \\ = \boxed{} \text{ Square Footage} \end{array}$$

<i>Inches</i>	<i>Feet</i>
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

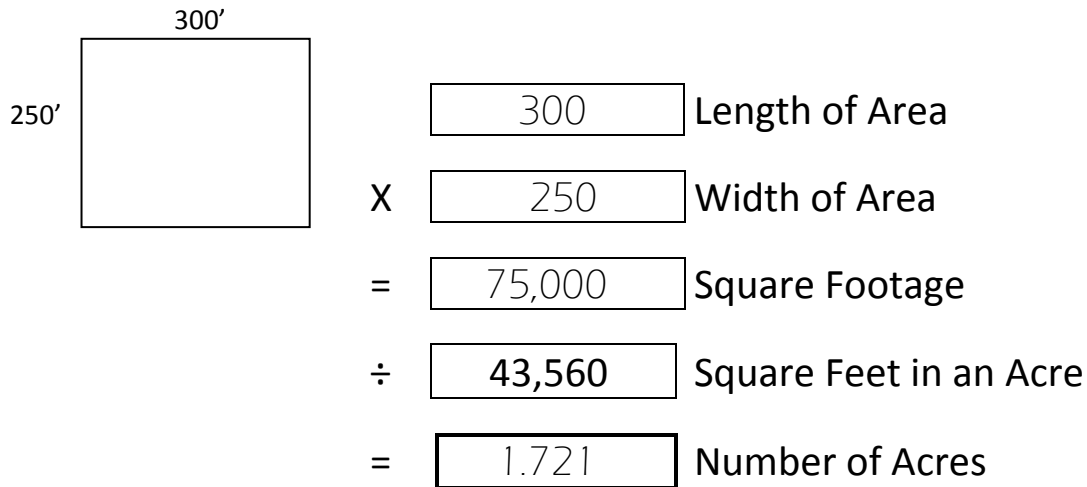
Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

Acreage

The size of a piece of property is usually measured in Acreage. To determine how many acres a lot is use the following formula:

$$\text{Length in Feet} \times \text{Width in Feet} = \text{Square Footage} \div 43,560 = \text{Acres}$$

Example: If you have a piece of property that is 300 feet wide by 250 feet long, you should multiply the width by the length to get the square footage of the property, in this case 300 multiplied by 250 is 75,000 square feet. Next divide the square footage by 43,560 which is the number of square feet in one acre. 75,000 divided by 43,560 is 1.721 Acres or nearly 2 acres.



Acreage Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project.

Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine how many acres are in an area is.

$$\begin{aligned} & \boxed{} \text{ Length of Area} \\ \times & \boxed{} \text{ Width of Area} \\ = & \boxed{} \text{ Square Footage} \\ \div & \boxed{43,560} \text{ Square Feet in an Acre} \\ = & \boxed{} \text{ Number of Acres} \end{aligned}$$

<i>Inches</i>	<i>Feet</i>
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

Exterior Project Estimations

The following section gives simple formulas for estimating repairs and renovations usually made to the exterior of you investment homes. You will find simple step by step formulas for each project type listed below:

Concrete - Learn how to calculate the amount of concrete in yards you need for your projects.

Roofing

Roof Sheeting – Learn to estimate the how many sheets of roof sheeting you will need when repairing or replacing a roof.

Shingles – Learn to estimate the how many squares of shingles you will need when repairing or replacing a roof.

Walls

Paint – Learn to estimate how many gallons of paint you will need when painting the exterior of your home.

Bricks – Learn to calculate the number of bricks you will need for your projects.

Siding – Learn to estimate how many squares of siding you will need when adding siding to your home.



Concrete

To determine how much concrete you will need for repair or renovations you will need to follow the formula below. Remember concrete is measured in yards, the below formulas will result in the amount of concrete that is needed in yards.

Width x Length x Thickness ÷ 27 cubic feet = Yards of Concrete Needed

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'.

Example: If you need to add a walkway that is 4 feet 2 inches wide by 53 feet long and 4 inches thick, you would multiply the width by length by thickness which will give you the cubic feet of the area you need to fill with concrete and divide that number by 27:

$$\begin{array}{r} \boxed{4.166} \text{ Width of Area} \\ \times \boxed{53} \text{ Length of Area} \\ \times \boxed{.333} \text{ Thickness of Area} \\ = \boxed{73.526} \text{ Cubic Feet of Area} \\ \div \boxed{27} \text{ Cubic Feet in a Yard} \\ = \boxed{2.723} \text{ Yards of Concrete Needed} \\ \boxed{3} \text{ Rounded to Nearest Yard} \end{array}$$

Concrete Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project.

Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine the amount of concrete you will need.

$$\begin{aligned} & \boxed{} \text{ Width of Area} \\ \times & \boxed{} \text{ Length of Area} \\ \times & \boxed{} \text{ Thickness of Area} \\ = & \boxed{} \text{ Cubic Feet of Area} \\ \div & \boxed{27} \text{ Cubic Feet in a Yard} \\ = & \boxed{} \text{ Yards of Concrete Needed} \\ & \boxed{} \text{ Rounded to Nearest Yard} \end{aligned}$$

<i>Inches</i>	<i>Feet</i>
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

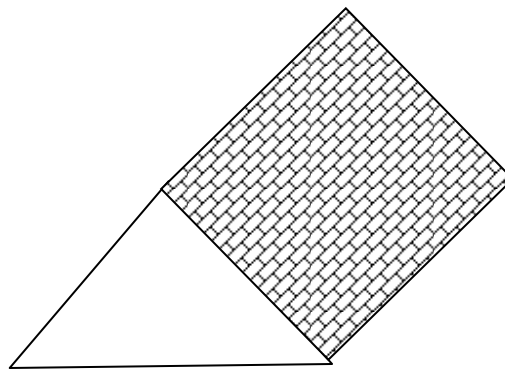
Roof Sheeting

If you have a roof that needs to be replaced, you are going to need to know how much sheeting you are going to need. Sheeting is the plywood or particle board that lies on the rafters and beneath the shingles. Sheeting usually comes in 4'x8' sections.

**Length of Roof Ridge x Length of Rafter x 2 (two sides of the roof)
÷ 32 = Number of 4x8 Sheets Needed**

Example: Your home is 55' long with a 2' overhang front and back and the rafters measure 18' 3" long. To determine how many 4' x 8' sheets of plywood or particle board you need using the above formula.

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1



$$\begin{array}{rcl} & \boxed{57} & \text{Length of Roof Ridge} \\ \times & \boxed{18.250} & \text{Length of Rafters} \\ \times & \boxed{2} & \text{Multiply by 2 (2 sides of the roof)} \\ = & \boxed{2080.5} & \text{Square Footage of Roof} \\ \div & \boxed{32} & \text{Square Feet a Piece of Sheeting} \\ = & \boxed{65.015} & \text{Sheets of 4x8 Sheeting Needed} \\ & \boxed{66} & \text{Rounded to Nearest Sheet} \end{array}$$

Roof Sheeting Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project.

Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine the amount of sheeting you will need.

$$\begin{aligned}
 & \boxed{} \text{ Length of Roof Ridge} \\
 \times & \boxed{} \text{ Length of Rafters} \\
 \times & \boxed{2} \text{ Multiply by 2 (2 sides of the roof)} \\
 = & \boxed{} \text{ Square Footage of Roof} \\
 \div & \boxed{32} \text{ Square Feet a Piece of Sheeting} \\
 = & \boxed{} \text{ Sheets of 4x8 Sheeting Needed} \\
 & \boxed{} \text{ Rounded to Nearest Square}
 \end{aligned}$$

<i>Inches</i>	<i>Feet</i>
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

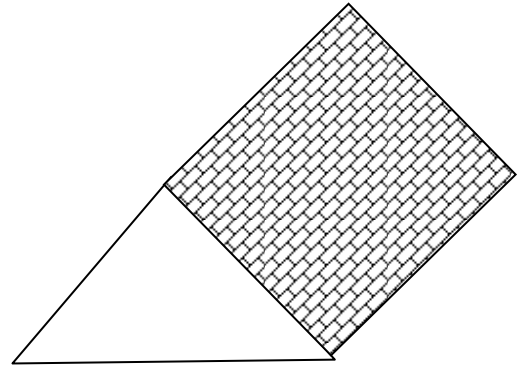
Shingles

If you were to replace your roof you would need to know how many squares of shingles you need. Shingles are measured in squares. Use the formula below to determine how many squares of shingles you would need when replacing your roof. NOTE: One square of shingles is approximately 3 bundles.

Length of Roof Ridge x Length of the Rafter x 2 ÷ 100 = Number of Squares of Shingles Needed

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Example: Your home is 55' long with a 2' overhang front and back and the rafters measure 18' 3" long. To determine how many squares of shingles you need using the above formula.



$$\begin{array}{rcl} \boxed{57} & \text{Length of Roof Ridge} & \\ \times & \boxed{18.250} & \text{Length of Rafters} \\ \times & \boxed{2} & \text{Multiply by 2 (2 sides of the roof)} \\ = & \boxed{2080.5} & \text{Square Footage of Roof} \\ \div & \boxed{100} & \text{Square Feet in one Square} \\ = & \boxed{20.805} & \text{Squares of Shingles Needed} \\ & \boxed{21} & \text{Rounded to Nearest Square} \end{array}$$

Shingles Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project.

Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine the amount of shingles you will need.

$$\begin{aligned}
 & \boxed{} \text{ Length of Roof Ridge} \\
 \times & \boxed{} \text{ Length of Rafters} \\
 \times & \boxed{2} \text{ Multiply by 2 (2 sides of the roof)} \\
 = & \boxed{} \text{ Square Footage of Roof} \\
 \div & \boxed{100} \text{ Square Feet in one Square} \\
 = & \boxed{} \text{ Squares of Shingles Needed} \\
 & \boxed{} \text{ Rounded to Nearest Square}
 \end{aligned}$$

<i>Inches</i>	<i>Feet</i>
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

Paint

There are many factors that go into the amount of paint that will be needed for every project including the type of paint, the type of surface and the number of coats needed. Typically a gallon of paint will cover between 100 and 400 square feet. It is usually safe to estimate around 350 square feet per gallon if repainting a surface with a similar color. If painting new drywall or over a dark color estimate approximately 200 square feet per gallon. When calculating the amount of paint needed, be sure to subtract window, door and other areas you will not be painting. If you are painting the interior, be sure to account for the ceiling.

Length of Area x Width or Height of Area ÷ Square Footage of Coverage per Gallon of Paint = Number of Gallons Needed

Example: You are painting your home which measure 28' 5" across the front and back of the home and 15' 2" across the sides. The walls of your home are 18' 3" high. How many gallons of paint will you need to complete this project if your paint can yield 350 square feet of coverage per gallon?

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

$$\begin{array}{rcl} & \boxed{87.166} & \text{Length of Area} \\ \times & \boxed{18.250} & \text{Width or Height} \\ & & \text{of Area} \\ \hline = & \boxed{1590.78} & \text{Square Footage of Area} \\ \div & \boxed{350} & \text{Square Feet of Coverage per} \\ & & \text{Gallon of Paint} \\ \hline = & \boxed{4.545} & \text{Number of Gallons of Paint} \\ & & \text{Needed} \\ & \boxed{5} & \text{Rounded to Nearest Gallon} \end{array}$$

Paint Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project.

Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine the number of gallons of paint you will need.

$$\begin{array}{rcl} & \boxed{} & \text{Length of Area} \\ \times & \boxed{} & \text{Width or Height of Area} \\ = & \boxed{} & \text{Square Footage of Area} \\ \div & \boxed{} & \text{Square Feet of Coverage per} \\ & & \text{Gallon of Paint} \\ = & \boxed{} & \text{Gallons of Paint Needed} \\ & \boxed{} & \text{Rounded to Nearest Gallon} \end{array}$$

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

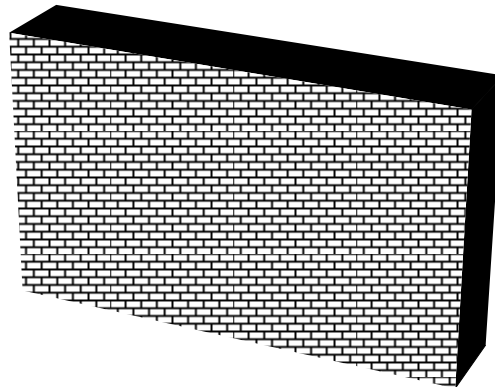
Bricks

Do you need to learn how many bricks are needed to cover a wall? Use the formula below to learn how many bricks are needed to cover an area. This formula is based on a standard brick measurement of 2 1/4" by 7 5/8"

**Length of Area x Height of Area = Square Feet of Area x 6.5
Bricks per Square Feet = Number of Bricks Needed**

Example: If you were to add brick across the front of your house which is 38' long and 10' high. There are two windows 2' 3" by 4' 5" and the front door 2' 6" by 6' 6" totaling 36.13 square feet of openings. Using the formula above along with the chart below to convert everything to the same unit of measurement – Feet – you can see how many bricks will be needed.

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1



	<input type="text" value="38"/>	Length of Area
X	<input type="text" value="10"/>	Height of Area
=	<input type="text" value="380"/>	Square Footage
-	<input type="text" value="36.13"/>	Square Footage of Openings
=	<input type="text" value="343.8"/>	Square Footage of Area to Be Covered
x	<input type="text" value="6.5"/>	Bricks in One Square Foot
=	<input type="text" value="2234.7"/>	Number of Bricks Needed
	<input type="text" value="2235"/>	Rounded to Nearest Brick

Brick Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project.

Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine the amount of bricks you will need.

$$\begin{aligned} & \boxed{} \text{ Length of Area} \\ \times & \boxed{} \text{ Height of Area} \\ = & \boxed{} \text{ Square Footage of Area} \\ \times & \boxed{6.5} \text{ Bricks in One Square Foot} \\ = & \boxed{} \text{ Number of Bricks Needed} \\ & \boxed{} \text{ Rounded to Nearest Brick} \end{aligned}$$

<i>Inches</i>	<i>Feet</i>
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

Siding

Link shingles, siding is also measured in squares. If you need to add or replace siding on your home you will need to determine how many squares of siding is needed. Use the formula below:

Length of Wall x Height of Wall ÷ 100 = Squares of Siding Needed

Example: You are going to add siding to the front of your home which measures 27' 3" long and stand 8' 5" high. Use the formula above to determine how many squares of siding you will need.

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

$$\begin{array}{rcl} & \boxed{27.250} & \text{Length of Wall} \\ \times & \boxed{8.417} & \text{Height of Wall} \\ \hline = & \boxed{229.363} & \text{Square Footage of} \\ & & \text{Room} \\ \\ \div & \boxed{100} & \text{Square Feet in one Square} \\ \hline = & \boxed{2.293} & \text{Squares of Siding Needed} \\ \\ & \boxed{3} & \text{Rounded to Nearest Square} \end{array}$$

Siding Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project.

Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine the amount of siding you will need.

$$\begin{array}{r} \boxed{} \text{ Length of Wall} \\ \times \boxed{} \text{ Height of Wall} \\ = \boxed{} \text{ Square Footage of Room} \\ \div \boxed{100} \text{ Square Feet in one Square} \\ = \boxed{} \text{ Squares of Siding Needed} \\ \boxed{} \text{ Rounded to Nearest Square} \end{array}$$

<i>Inches</i>	<i>Feet</i>
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

Interior Project Estimations

The following section gives simple formulas for estimating repairs and renovations usually made to the interior of you investment homes. You will find simple step by step formulas for each project type listed below:

Walls

Drywall – Learn how to calculate the number of drywall sheets you will need.

Paint – Learn to calculate the number of gallons of paint you need for your projects.

Floors

Subfloors – Learn how to calculate the number of sub-flooring sheets you will need.

Hardwood Flooring– Learn to calculate the number hardwood flooring bundles you will need.

Tile Flooring– Learn to calculate the number of flooring tiles needed.

Carpeting or Vinyl Flooring – Learn how to calculate how many yards of carpet or vinyl flooring you will need.



Drywall

Drywall is usually sold in 4'x12', 4'x10' or 4'x8' sheets. Use the formula below to determine the amount of drywall need to cover walls and ceilings, you will need to know what size drywall sheets you plan to use and the chart below that shows the square footage of each.

Length of area x Height of area + 10% waste – square footage of openings ÷ Drywall square footage = Number of Sheets of Drywall

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Sheet Size	Square Footage
4' x 12'	32 sq ft
4' x 10'	40 sq ft
4' x 8'	48 sq ft

Example: After gutting the kitchen you need to replace the drywall. The room measures 12'x10' and is 8' high with one doorway measuring 2' 6" x 6' 6". All the drywall needs to be replaced including the ceiling. How many 4'x12' sheets of drywall are needed?

$$\begin{aligned}
 & \boxed{44} \text{ Total Length of all Walls to be Covered} \\
 \times & \boxed{8} \text{ Height of all Walls to be Covered} \\
 = & \boxed{352} \text{ Square Footage of Walls} \\
 & \boxed{12} \text{ Length of Ceiling to be Covered} \\
 \times & \boxed{10} \text{ Width of Ceiling to be Covered} \\
 = & \boxed{120} \text{ Square Footage of Ceiling} \\
 & \boxed{472} \text{ Total Square Footage of Areas to be Covered (add wall square} \\
 & \text{footage to ceiling square footage)} \\
 + & \boxed{47.2} \text{ 10% for Wasted Material (multiple above amount by .1)} \\
 = & \boxed{519.2} \text{ Total Square Footage of Area Plus 10% Extra for Waste} \\
 - & \boxed{16.25} \text{ Square Footage of Openings} \\
 = & \boxed{502.95} \text{ Total} \\
 \div & \boxed{32} \text{ Square Footage of Drywall (use chart)} \\
 = & \boxed{15.71} \text{ Sheets of Drywall Needed} \\
 & \boxed{16} \text{ Rounded To Nearest Sheet}
 \end{aligned}$$

Drywall Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project. Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine the amount of drywall you will need.

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Sheet Size	Square Footage
4'x12'	32 sq ft
4'x10'	40 sq ft
4'x8'	48 sq ft

Length of Wall to be Covered
 X Height of Wall to be Covered
 = Square Footage of Wall
 Length of Ceiling to be Covered
 X Width of Ceiling to be Covered
 = Square Footage of Ceiling
 Total Square Footage of Areas to be Covered (add wall square footage to ceiling square footage)
 + 10% for Wasted Material (multiple above amount by .1)
 = Total Square Footage of Area Plus 10% Extra for Waste
 - Square Footage of Openings
 = Total
 ÷ Square Footage of Drywall (use chart)
 = Sheets of Drywall Needed
 Rounded To Nearest Sheet

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

Paint

There are many factors that go into the amount of paint that will be needed for every project including the type of paint, the type of surface and the number of coats needed. Typically a gallon of paint will cover between 100 and 400 square feet. It is usually safe to estimate around 350 square feet per gallon if repainting a surface with a similar color. If painting new drywall or over a dark color estimate approximately 200 square feet per gallon. When calculating the amount of paint needed, be sure to subtract window, door and other areas you will not be painting.

Length of Area x Width or Height of Area ÷ Square Footage of Coverage per Gallon of Paint = Number of Gallons Needed

Example: You are going to paint the living room (12' x 10'), dining room (8' x 13') and entrance way (5' x 4') of your home. The walls are 8' high, the total length of all walls is 104' and there is 244 sq ft of ceiling to cover. How many gallons of paint will it take to cover the area if we estimate 350 square feet can be painted with each gallon of paint?

Wall

$$\begin{array}{r} \boxed{104} \text{ Length of Wall Area} \\ \times \boxed{8} \text{ Width or Height of Wall Area} \\ \hline = \boxed{832} \text{ Square Footage of Wall Area} \end{array}$$

Ceiling

$$\begin{array}{r} \boxed{} \text{ Length of Ceiling Area} \\ \times \boxed{} \text{ Width of Ceiling Area} \\ \hline = \boxed{244} \text{ Square Footage of Ceiling Area} \end{array}$$

Wall and Ceiling

$$\begin{array}{r} \boxed{832} \text{ Square Footage of Wall Area} \\ + \boxed{244} \text{ Square Footage of Ceiling Area} \\ \hline = \boxed{1076} \text{ Total square footage of all areas} \\ \div \boxed{350} \text{ Square Coverage per Gallon of Paint} \\ \hline = \boxed{3.074} \text{ Number of Gallons of Paint Needed} \\ \hline \boxed{4} \text{ Rounded to Nearest Gallon} \end{array}$$

Paint Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project.

Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine the number of gallons of paint you will need.

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Wall

$$\begin{aligned}
 & \boxed{} \text{ Length of Wall Area} \\
 \times & \boxed{} \text{ Width or Height of Wall} \\
 & \text{Area} \\
 = & \boxed{} \text{ Square Footage of Wall Area}
 \end{aligned}$$

Ceiling

$$\begin{aligned}
 & \boxed{} \text{ Length of Ceiling Area} \\
 \times & \boxed{} \text{ Width of Ceiling Area} \\
 = & \boxed{} \text{ Square Footage of Ceiling Area}
 \end{aligned}$$

Wall and Ceiling

$$\begin{aligned}
 & \boxed{} \text{ Square Footage of Wall Area} \\
 + & \boxed{} \text{ Square Footage of Ceiling Area} \\
 = & \boxed{} \text{ Total square footage of all areas} \\
 \div & \boxed{} \text{ Square Coverage per Gallon of Paint} \\
 = & \boxed{} \text{ Number of Gallons of Paint Needed} \\
 & \boxed{} \text{ Rounded to Nearest Gallon}
 \end{aligned}$$

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

Subfloor

Sub-floor is something that often times needs to be replaced in investment properties, usually due to water damage. The sub-floor is plywood sheeting that covers the floor joist. Sub-Flooring is usually 4' x 8' sheets of plywood. Use the formula below to determine how many 4' x 8' sheets of sub-flooring you will need.

$$\text{Length of Area} \times \text{Width of Area} \div 32 = \text{Number of Sheets of 4' x 8' Sub-Floor}$$

Example: You need to replace the sub floor in the master bedroom. The room measures 15' x 12', how many 4' x 8' sheets of sub floor are needed?

	<input type="text" value="15"/>	Length of Area
X	<input type="text" value="12"/>	Width of Area
=	<input type="text" value="180"/>	Square Footage of Area
-	<input type="text" value="0"/>	Square Footage of Any Openings
=	<input type="text" value="180"/>	Total Square Footage Of Area to be Covered with Sub-Flooring
÷	<input type="text" value="32"/>	Square Feet in a Sheet of Sub-Flooring
=	<input type="text" value="5.625"/>	Number of Sub-Flooring Sheets Needed
	<input type="text" value="6"/>	Rounded to Nearest Sheet

Sub-Flooring Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project.

Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine the amount of sub-flooring you will need.

<i>Inches</i>	<i>Feet</i>
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Length of Area
 X Width of Area
 = Square Footage of Area
 - Square Footage of Any Openings
 = Total Square Footage Of Area to be Covered with Sub-Flooring
 ÷ Square Feet in a Sheet of Sub-Flooring
 = Number of Sub-Flooring Sheets Needed
 Rounded to Nearest Sheet

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

Hardwood Flooring

Hardwood flooring is sold in bundles. Hardwood flooring can come in many different widths and thicknesses. Use the formula below along with the chart to determine how many bundles of hardwood flooring are needed for your project. Keep in mind that every bundle of hardwood flooring can have different amounts of wood; you will have to check the label of product you choose to use to determine how many square feet each bundle covers.

Length of Area x Width of Area + Added Percentages ÷ Square Footage Bundle Covers = Number of Bundles of Hardwood Flooring Needed

Hardwood Plank Size	Added Percentages	Percentages as Decimal
¾" x 1 ½"	55%	.55
¾" x 2"	42 ½ %	.425
¾" x 2 ¼"	38 ⅓%	.3833
¾" x 3 ¼"	29%	.29
½" x 1 ½"	38 ⅓%	.3833
½" x 2"	30%	.3
⅜" x 1 ½"	38 ⅓%	.3833
⅜" x 2"	30%	.3

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Example: You are adding hardwood floors to your dining room which measures 15' 2" by 10' 6". The flooring you are planning to use is ¾" x 2" and bundles contain 30 feet of board.

	15.166	Length of Room
X	10.500	Width of Room
=	159.243	Square Footage of Room
+	67.68	Added Percentages (square footage of room multiplied by the percentage multiplier from chart)
=	226.923	Square Footage + Added Percentages
÷	30	Number of Feet/Bundle of Wood
=	7.564	Number of Bundles Needed
	8	Rounded to Nearest Bundle

Hardwood Flooring Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project.

Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine the amount of hardwood flooring bundles you will need.

Hardwood Plank Size	Added Percentages	Percentages as Decimal
¾" x 1 ½"	55%	.55
¾" x 2"	42 ½ %	.425
¾" x 2 ¼"	38 ⅓%	.3833
¾" x 3 ¼"	29%	.29
½" x 1 ½"	38 ⅓%	.3833
½" x 2"	30%	.3
⅜" x 1 ½"	38 ⅓%	.3833
⅜" x 2"	30%	.3

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

Length of Room
 X Width of Room
 = Square Footage of Room
 + Added Percentages (square footage of room multiplied by the percentage multiplier from chart)
 = Square Footage + Added Percentages
 ÷ Number of Feet/Bundle of Wood
 = Number of Bundles Needed
 Rounded to Nearest Bundle

Tile Flooring

There are many different sizes of tiles, use the chart below showing “Tile Multipliers” when calculating how many tiles are needed for your project. It is recommended to add an additional 5% to all calculations when estimating materials.

Length of Area x Width of Area – Obstacles in Room x Tile Multiplier = Number of Tiles Needed

Tile Size	Tile Multiplier
4" x 4"	9.0
6" x 6"	4.0
6" x 8"	3.0
9" x 9"	1.75
12" x 12"	1
18" x 18"	.5
24" x 24"	.25

Example: You are adding 4" x 4" ceramic tile flooring to the bathroom. The bathroom measures 8' 3" by 10' 2". There is a vanity and toilet that take up 18 square feet of space. How many tiles do you need to complete this project?

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

$$\begin{aligned}
 & 8.250 \text{ Length of Room} \\
 \times & 10.166 \text{ Width of Room} \\
 = & 83.869 \text{ Square Footage of Room} \\
 - & 18 \text{ Square Footage of Obstacles} \\
 = & 65.869 \text{ Square Footage of Area to be Covered} \\
 \times & 9.0 \text{ Tile Multiplier (see chart)} \\
 = & 592.821 \text{ Number of Tiles Needed} \\
 & \boxed{593} \text{ Rounded to Nearest Tile}
 \end{aligned}$$

Tile Flooring Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project.

Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine the amount of tile flooring you will need.

Tile Size	Tile Multiplier
4" x 4"	9.0
6" x 6"	4.0
6" x 8"	3.0
9" x 9"	1.75
12" x 12"	1
18" x 18"	.5
24" x 24"	.25

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

Length of Room
 X Width of Room
 = Square Footage of Room
 - Square Footage of Obstacles
 = Square Footage of Area to be Covered
 x Tile Multiplier (see chart)
 = Number of Tiles Needed
 Rounded to Nearest Tile

Carpet or Vinyl Flooring

Carpeting and vinyl flooring is measured in yards. Use the formula below to determine how many yards of flooring you need. It is recommended to add an additional 5% to all calculations when estimating materials.

Length of Area x Width of Area ÷ 9 = Yards of flooring Needed

* Be sure to add an extra 4" to each dimension if there is a door on that wall to be sure the flooring covers the threshold area of the doorway.

**Use the chart to the right to convert inches to feet.

Inches	Feet
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Example: You are adding carpeting to the bedroom in your home. The room measure 9' 4" by 10' 3". How many yards of carpet will you need?

$$\begin{array}{rcl} & \boxed{9.333} & \text{Length of Room} \\ \times & \boxed{10.250} & \text{Width of Room} \\ \hline = & \boxed{95.663} & \text{Square Footage of Room} \\ \div & \boxed{9} & \text{Square Feet in one Yard} \\ \hline = & \boxed{10.629} & \text{Yards of Flooring Needed} \\ & \boxed{11} & \text{Rounded to Nearest Yard} \end{array}$$

Carpet/Vinyl Flooring Estimation Worksheet

Make a copy of this worksheet when estimating the amount of materials and supplies you need for your project.

Have a calculator & pen handy so you can fill in the blanks below and follow the step by step formulas to determine the amount of carpet or vinyl flooring you will need.

$$\begin{aligned} & \boxed{} \text{ Length of Room} \\ \times & \boxed{} \text{ Width of Room} \\ = & \boxed{} \text{ Square Footage of Room} \\ \div & \boxed{9} \text{ Square Feet in one Yard} \\ = & \boxed{} \text{ Yards of Flooring Needed} \\ & \boxed{} \text{ Rounded to Nearest Yard} \end{aligned}$$

<i>Inches</i>	<i>Feet</i>
1	.083
2	.166
3	.250
4	.333
5	.417
6	.500
7	.583
8	.667
9	.750
10	.833
11	.917
12	1

Use the Inches to Feet Chart to convert inches to feet. For example if you have 5 feet 4 inches (5' 4") you would use the chart below to convert 5' 4" to 5.333'. For a more in depth breakdown of inches to feet conversion see the chart on page 34.

Converting Inches to Feet

Use the chart below when converting inches to feet for example if you have 5 feet 4 $\frac{1}{4}$ inches (5' 4 $\frac{1}{4}$ ") you would use the chart below to convert 5' 4 $\frac{1}{4}$ " to 5.352'.

<i>Inches</i>	<i>Feet</i>
1"	.083
1 $\frac{1}{4}$ "	.104
1 $\frac{1}{2}$ "	.125
1 $\frac{3}{4}$ "	.145
2"	.167
2 $\frac{1}{4}$ "	.187
2 $\frac{1}{2}$ "	.208
2 $\frac{3}{4}$ "	.228
3"	.250
3 $\frac{1}{4}$ "	.270
3 $\frac{1}{2}$ "	.291
3 $\frac{3}{4}$ "	.311
4"	.333
4 $\frac{1}{4}$ "	.352
4 $\frac{1}{2}$ "	.374
4 $\frac{3}{4}$ "	.394
5"	.417
5 $\frac{1}{4}$ "	.436
5 $\frac{1}{2}$ "	.457
5 $\frac{3}{4}$ "	.477
6"	.5
6 $\frac{1}{4}$ "	.519
6 $\frac{1}{2}$ "	.540
6 $\frac{3}{4}$ "	.560

<i>Inches</i>	<i>Feet</i>
7"	.538
7 $\frac{1}{4}$ "	.602
7 $\frac{1}{2}$ "	.623
7 $\frac{3}{4}$ "	.643
8"	.667
8 $\frac{1}{4}$ "	.685
8 $\frac{1}{2}$ "	.706
8 $\frac{3}{4}$ "	.726
9"	.750
9 $\frac{1}{4}$ "	.768
9 $\frac{1}{2}$ "	.789
9 $\frac{3}{4}$ "	.809
10"	.833
10 $\frac{1}{4}$ "	.851
10 $\frac{1}{2}$ "	.872
10 $\frac{3}{4}$ "	.892
11"	.917
11 $\frac{1}{4}$ "	.934
11 $\frac{1}{2}$ "	.955
11 $\frac{3}{4}$ "	.975
12"	1.0

