



**Task Title: Use Roofing Estimator**

OALCF Cover Sheet – Practitioner Copy

**Learner Name:** \_\_\_\_\_

**Date Started:** \_\_\_\_\_

**Date Completed:** \_\_\_\_\_

**Successful Completion:** Yes  No

**Goal Path:** Employment  Apprenticeship

Secondary School  Post Secondary  Independence

**Task Description:**

Use a roofing estimator to find information to calculate the amount of roofing supplies to order.

**Main Competency/Task Group/Level Indicator:**

- Find and Use Information/Interpret documents/A2.3
- Use and Understand Numbers/Use measures/C3.3

**Materials Required:**

- Pen & Paper and/or digital device
- Calculator (optional)

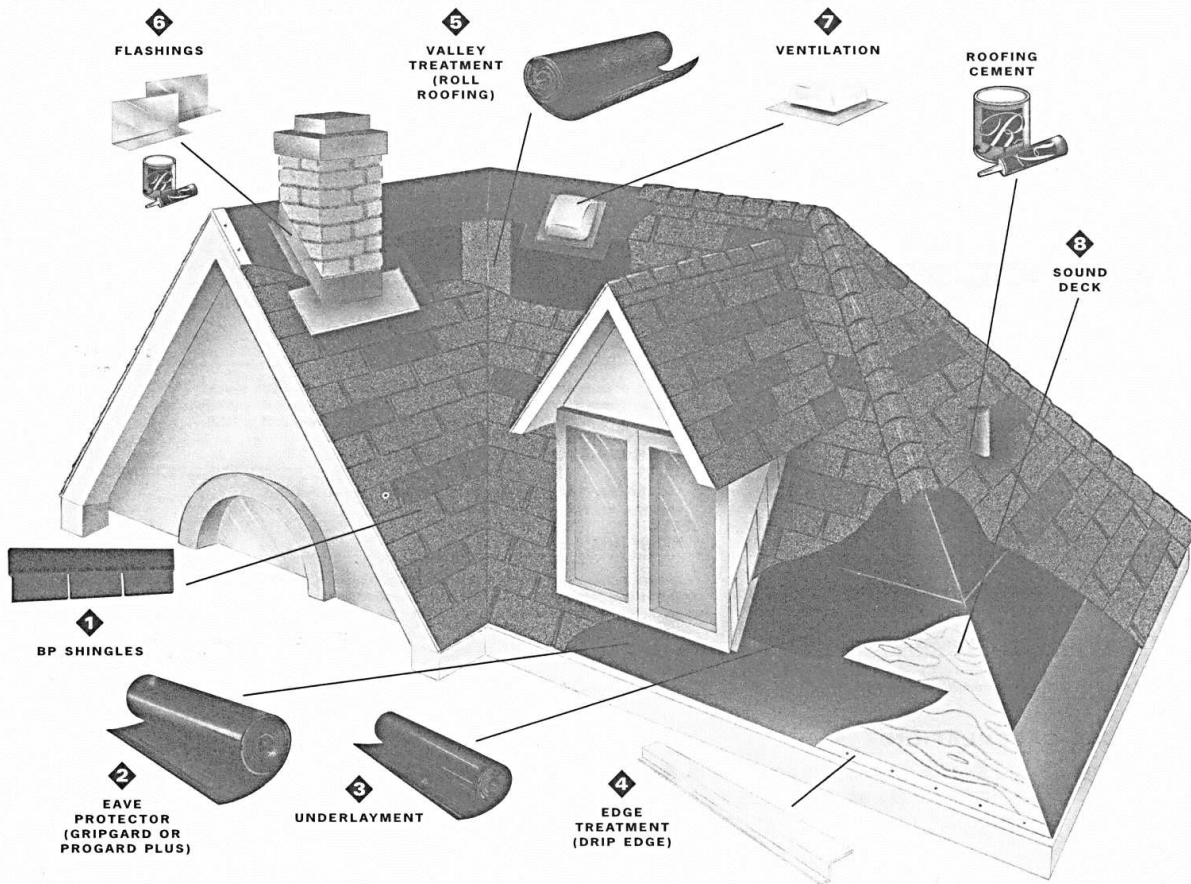
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## Learner Information

A Roofing Estimator can be used to calculate the amount of roofing supplies to order. Scan the BP Quick Roofing Estimator.

## BP QUICK ROOFING ESTIMATOR

### THE ELEMENTS OF A PREMIUM ROOF SYSTEM



- |   |  |
|---|--|
| <p><b>1 BP SHINGLES</b><br/>Shingles determine the ultimate longevity of the roof.</p> <p><b>2 EAVE PROTECTOR (GRIPGARD OR PROGARD PLUS)</b><br/>Waterproofing Membrane (Gripgard or Progard Plus) provides necessary protection against winter freeze / thaw cycles.</p> <p><b>3 UNDERLAYMENT</b><br/>Sheds water that may be driven under the shingles by high winds.</p> <p><b>4 EDGE TREATMENT (DRIP EDGE)</b><br/>For efficient water shedding at the roof's edge.</p> | <p><b>5 VALLEY TREATMENT (ROLL ROOFING)</b><br/>Stops damage due to snow and ice build-up.</p> <p><b>6 FLASHINGS</b><br/>Protect areas vulnerable to leaks: skylights, vents, chimneys, etc.</p> <p><b>7 VENTILATION</b><br/>The building code requires all roof structures be provided with proper ventilation.</p> <p><b>8 SOUND DECK</b><br/>To have a solid foundation, a solid deck is essential.</p> |
|---|--|

#### HELPFUL TOOLS AND MATERIALS CHECK LIST

- |   |   |   |                                       |                                    |
|---|---|---|---------------------------------------|------------------------------------|
| <input type="checkbox"/> 25' Tape measure | <input type="checkbox"/> Extension Ladder | <input type="checkbox"/> Knee pads      | <input type="checkbox"/> Chalk Line   | <input type="checkbox"/> Tin Snips |
| <input type="checkbox"/> Shingle Knife    | <input type="checkbox"/> Hammer Tacker    | <input type="checkbox"/> Regular Hammer | <input type="checkbox"/> Caulking Gun | <input type="checkbox"/> Airgun    |
| <input type="checkbox"/> Nail Apron       | <input type="checkbox"/> Roofing Nails    | <input type="checkbox"/> Eavestroughing | <input type="checkbox"/> Gloves       |                                    |



1 800 567-2726

Web sites: [www.emcobp.com](http://www.emcobp.com) [www.dreamroofs.com](http://www.dreamroofs.com)



## Work Sheet

### **Task 1: What is the purpose of Valley Treatment?**

Answer:

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### **Task 2: How many types of 3-Tab Shingles are listed?**

Answer:

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**Task 3: Locate the Shingle Calculation section on the Estimator. Using the information in the table below, calculate the number of square feet of 1 side of the roof represented in this table.**

<b>Hip Roof/house Part A</b>	<b>32 ft</b>
<b>Part B</b>	<b>18 ft</b>
<b>Part C</b>	<b>14 ft</b>
<b>Part D</b>	<b>10 ft</b>
<b>Part E</b>	<b>10 ft</b>

Answer:

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**Task 4: Using your calculation in Task 3, calculate how many bundles of 3-Tab shingles will be needed.**

Answer:

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**Task 5: If Citadel shingles cost \$16.97/bundle, calculate the cost of 11 bundles.**

Answer:

## Answers

### Task 1: What is the purpose of Valley Treatment?

Answer: to stop damage due to snow and ice buildup

### Task 2: How many types of 3-Tab Shingles are listed?

Answer: 6 types of shingles

**Task 3: Locate the Shingle Calculation section on the Estimator. Using the information below, calculate the number of square feet on the roof represented in this table.**

<b>Hip Roof/house A</b>	<b>32 ft</b>
<b>B</b>	<b>18 ft</b>
<b>C</b>	<b>14 ft</b>
<b>D</b>	<b>10 ft</b>
<b>E</b>	<b>10 ft</b>

Answer:

$[(A + C) / 2] \times E =$  sq. feet of roof

$[(32 + 14) / 2] \times 10 =$

230 sq. ft.

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**Task 4: Using your calculation in Task 3, calculate how many bundles of shingles will be needed. If necessary, explain your answer.**

Answer:

230 sq. ft. / 32.3 sq ft. per bundle = 7.12 bundles. Since bundles are sold intact, the answer is 8 bundles. \*\*\* The answer is correct if the participant used a different number of sq. ft, if they used their answer from Task 3 and did the calculation correctly in Task 4.

\*\*\* 8 bundles

**Task 5: If Citadel shingles cost \$16.97/bundle, calculate the cost of 11 bundles.**

Answer:

\$186.67



### Performance Descriptors

Levels	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
A2.3	Uses layout to locate information			
A2.3	Manages unfamiliar elements to complete tasks			
C3.3	Understands and uses formulas for finding ...volume			

This task: Was successfully completed  Needs to be tried again

Learner Comments:

Instructor (print):

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Learner (print):

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