



**Task Title: Compare Hotel Room Size**

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:** The learner will use floor plans and dimensions to calculate and compare hotel room sizes.

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

- Understand and Use Numbers/Use measures/C3.2

**Materials Required:**

- Pen/pencil and paper and/or digital device
- Calculator or digital device with calculator function

Task Title: CompareHotelRoomSize\_EI\_C3.2

## Learner Information

When travelling or booking hotel rooms it is important to know the size of the room so you can book the space that you need.

## Work Sheet

**Task 1: Calculate what the square foot difference is between the "Double-Double Suite" and the "King Suite" shown here. Both rooms are 14' wide. The Double-Double Suite is 35' long, and the King Suite is 29' long.**



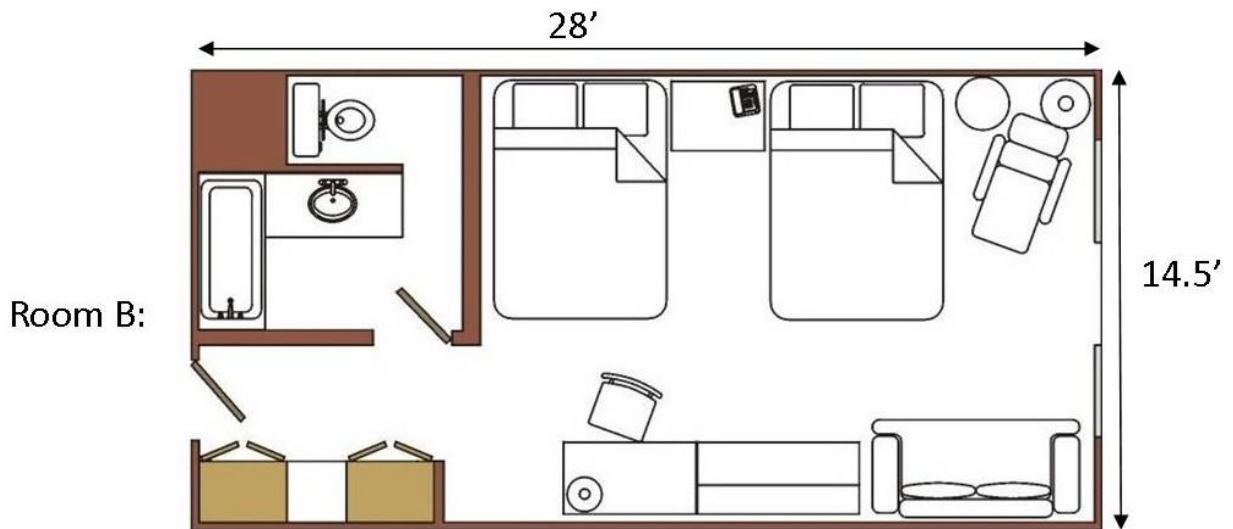
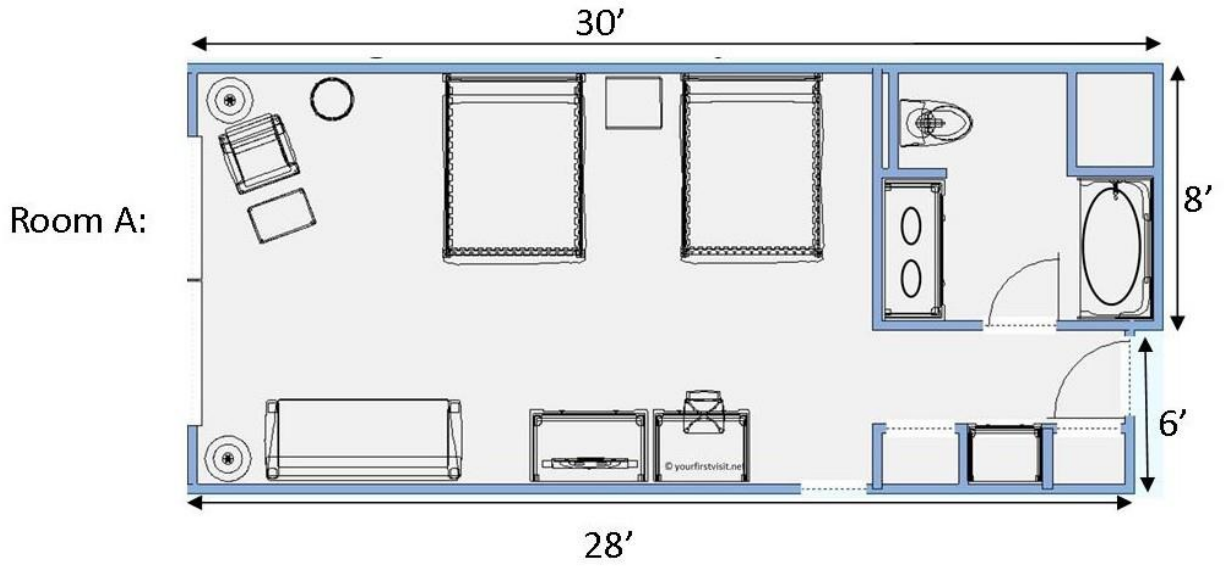
Double-Double Suite

King Suite

Answer:

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**Task 2: Using the floor plans for Room A and Room B, determine which hotel room is larger, and by how many square feet.**



Task Title: CompareHotelRoomSize\_EI\_C3.2

Answer:

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## Answers

**Task 1: Calculate what the square foot difference is between the "Double-Double Suite" and the "King Suite" shown here. Both rooms are 14' wide. The Double-Double Suite is 35' long, and the King Suite is 29' long.**

Answer:

$$\text{DD Suite: } 14' \times 35' = 490 \text{ sq feet}$$

$$\text{KS Suite: } 14' \times 29' = 406 \text{ sq feet}$$

$$490 - 406 = 84 \text{ sq feet}$$

**Task 2: Using the floor plans for Room A and Room B, determine which hotel room is larger, and by how many square feet.**

Answer:

$$\text{Room A: } 30' \times 8' = 240 \text{ sq ft}$$

$$28' \times 6' = 168 \text{ sq ft}$$

$$240 + 168 = 408 \text{ sq feet}$$

$$\text{Room B: } 28' \times 14.5' = 406 \text{ sq feet}$$

Room A is 2 square feet larger than Room B.

Performance Descriptors

Levels	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
C3.2	calculates using numbers expressed as whole numbers, fractions, decimals, percentages and integers			
	understands and uses formulas for finding the perimeter, area and volume of simple, common shapes			
	chooses and performs required operation(s); may make inferences to identify required operation(s)			
	selects appropriate steps to solutions			
	uses strategies to check accuracy (e.g. estimating, using a calculator, repeating a calculation, using the reverse operation)			

This task: Was successfully completed  Needs to be tried again

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Learner Comments:

Instructor (print):

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Learner (print):

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## Skill Building Activities

### **Links to Online Resources:**

LearningHUB Math Courses:

[https://www.learninghub.ca/apps/pages/index.jsp?uREC\\_ID=1118749&type=d&pREC\\_ID=1380783](https://www.learninghub.ca/apps/pages/index.jsp?uREC_ID=1118749&type=d&pREC_ID=1380783)

LearningHUB Course Catalogue:

<https://www.learninghub.ca/apps/pages/coursecatalogue>

Khan Academy – Comparing Areas of Rectangles (short video):

<https://www.khanacademy.org/math/cc-fourth-grade-math/area-perimeter/imp-area-and-perimeter/v/comparing-area>

Khan Academy – Area Problem Questions:

[https://www.khanacademy.org/math/cc-fourth-grade-math/area-perimeter/imp-area-and-perimeter/e/area\\_of\\_squares\\_and\\_rectangles](https://www.khanacademy.org/math/cc-fourth-grade-math/area-perimeter/imp-area-and-perimeter/e/area_of_squares_and_rectangles)

WikiHow – Measuring a Room (with pictures):

<https://www.wikihow.com/Measure-a-Room>