Task-based Activity Cover Sheet

Task Title: Compare Hotel Room Size

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 the attached floor plans and dimensions to calculate and compare hotel room sizes.

Competency:	**Task Group(s):**
C: Understand and Use Numbers	C3: Use Measures

Level Indicators:
C3.2:   Use measures to make one-step calculations
Performance Descriptors: see chart on last page or click here.
Links to skill building activities: see the last page or click here.

Materials Required:
- Pen/pencil
- Scrap paper/calculator
- Attached floor plans

ESKARGO:
- Calculates using numbers expressed as whole numbers, fractions, decimals, percentages, and integers
- Interprets and represents area and volume using symbols and abbreviations (e.g., m^3)
- 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)

Attitudes:

Practitioner,

We encourage you to talk with the learner about attitudes required to complete this task set. The context of the task has to be considered when identifying attitudes. With your learner, please check one of the following:

□ Attitude is not important   □ Attitude is somewhat important   □ Attitude is very important

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When travelling or booking hotel rooms it is important to know the size of the room if you need extra space.
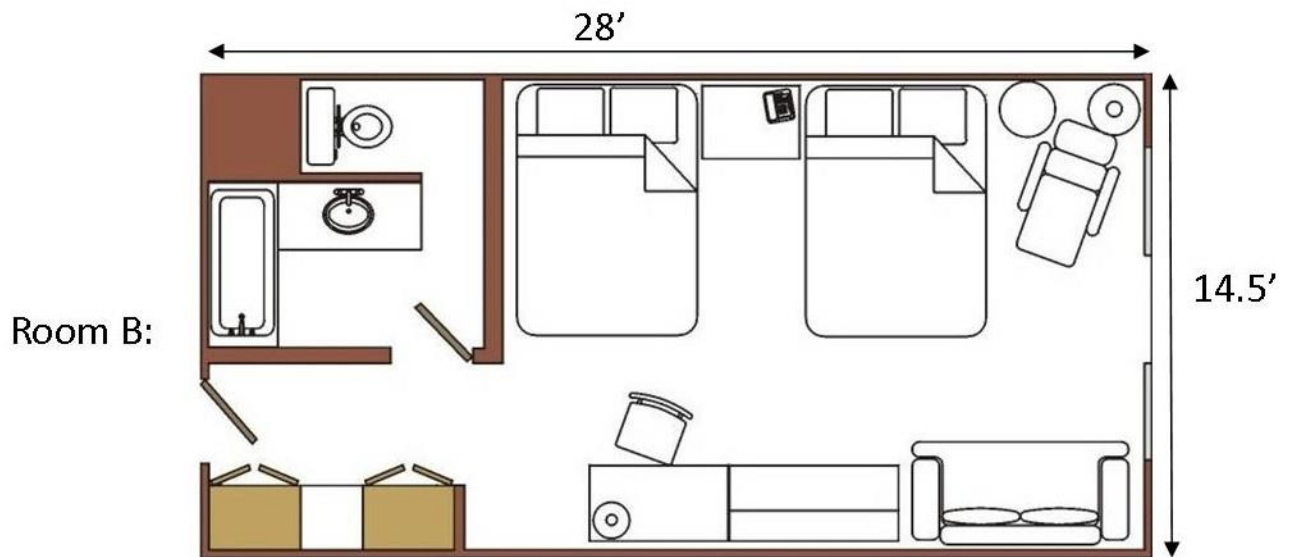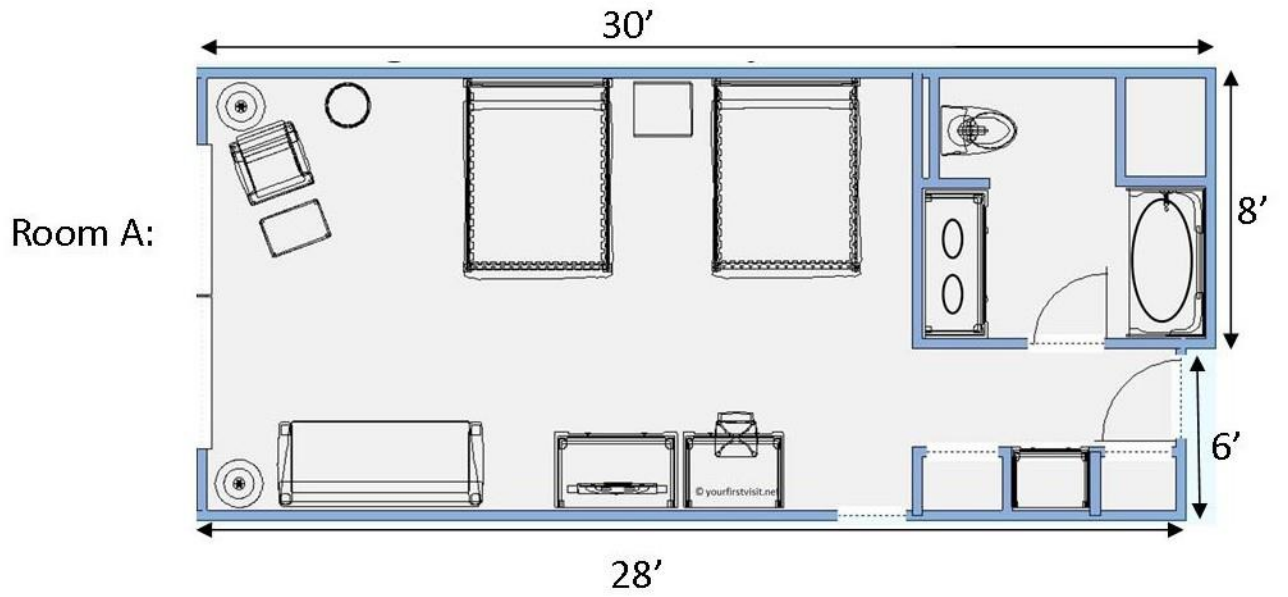
Learner Information and Tasks:

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

Task 2: Using the floor plans on the next page, determine which hotel room is larger, and by how many square feet.

Hotel Room Floor Plans:

Room A:

Room B:

Task Title: Compare Hotel Room Size

Answer Key

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

DDS: 14' x 35' = 490 sq feet

KS: 14' x 29' = 406 sq feet

490 – 406 = **84 sq feet**

Task 2:   Using the floor plans on the next page, determine which hotel room is larger.

Room A: 30' x 8' = 240 sq ft

28' x 6' = 168 sq ft

240 + 168 = 408 sq feet

Room B: 28' x 14.5' = 406 sq feet

Room A is 2 square feet larger than Room B.

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	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___

Learner Comments

_____   _____

Instructor (print)   **Learner Signature**

Skill Building Activities

Links to Online Resources:

https://www.khanacademy.org/math/pre-algebra/measurement/perimeter/v/comparing-area-and-perimeter
- 5.3 minute video comparing areas and perimeters of rectangles

https://www.khanacademy.org/math/pre-algebra/measurement/rectangle-area-perimeter-word-pr/v/comparing-area   - 2.21 minute video featuring area and perimeter word problems

https://www.khanacademy.org/math/pre-algebra/measurement/area-basics/e/area_of_squares_and_rectangles   - Area problem questions

http://www.mathtv.com/ - Geometry – Area & Perimeter

http://www.wikihow.com/Measure-a-Room - How to measure a room, with pictures

http://www.helpingwithmath.com/by_subject/geometry/geo_area.htm - How to calculate area

LearningHUB online courses available:

- **Math, Independent Study (assigned by practitioner after assessment)**
  - Multiplication/Division Assignment
  - Measurement Assignment
  - Geometry Plane Figures Assignment #1

- **Independent Study, Short Courses (assigned by practitioner after assessment):**
  - Apprenticeship Math

- **Live Classes (SABA)** – Geometry A (Part 2); Geometry B

*To access LearningHUB courses, learners must register for the LearningHUB e-Channel program by completing the registration form on their website and completing the course selection (page 2 of the registration form): https://www.learninghub.ca/get_registered.aspx

*To Access LearningHUB Course Catalogue:
http://www.learninghub.ca/Files/PDF-files/HUBcoursecatalogue,%20December%2023,%202014%20revision.pdf