

# Designing a Kitchen 设计厨房

## Practice Problems 实践问题

English Name 英文名字: \_\_\_\_\_ Grade and Class 年级班级: \_\_\_\_\_

Complete the following calculations and write your final answers using complete sentences. Please note that the following questions will require you to make measurements using a scaled diagram, use the provided conversion rate to determine the actual size of the object in real life, and then determine surface area or volume of the object accordingly.

完成下列计算，并用完整的句子写答案。请注意下列问题需要用比例图先进行测量，然后用所提供的换算比例来确定现实生活中该物体的实际尺寸，并相应地计算出该物体的表面积和体积。

1. Calculate the surface area of the counter tops in the provided kitchen design.  
根据给出的厨房设计图，计算图中台面的表面积。
2. Calculate the volume of the cabinets underneath the countertop.  
计算台面下橱柜的体积。
3. Calculate the volume of the cabinets that are mounted on the wall.  
计算墙上的橱柜（壁柜）的体积。
4. Calculate the surface area of the cabinets that are mounted on the wall.  
计算墙上的橱柜（壁柜）的表面积。
5. Calculate the cost of the counter top if you were to use the following materials:  
按照一下所用材料分别计算台面的费用：
  - Granite at 175RMB/m  
花岗岩 175 元/m
  - Riverstone at 56RMB/m  
江石 56 元/m
  - Marble at 295RMB/m  
大理石 295 元/ m
  - Composite at 84RMB/m  
复合材料 84 元/ m
6. Calculate the cost of the cabinets if the average cost of cabinets is 2,800RMB per cubic meter.  
橱柜的平均费用为 2800 元/m<sup>3</sup>，计算所有橱柜的费用。
7. Calculate the cost of cabinet doors for your wall mounted cabinets if:  
按照以下分别计算壁柜门的费用：
  - Solid wood cabinet doors at 98RMB per square meter.  
实木橱柜门为 98 元/m<sup>2</sup>。
  - Deluxe cabinet doors with glass inserts at 240RMB per square meter.  
镶嵌玻璃的豪华柜门为 240 元/m<sup>2</sup>。

## Introduction 介绍

In this project you will practice using isometric graph paper to create an accurate drawing of a custom kitchen interior. Although all of the measurements and a sample design has been provided to assist you in this task, you are free to make changes to the design of the kitchen the same way a professional designer would. Try and create the best design that you can. Then your design is finished you can try calculating how much your proposed kitchen design would cost to build. For an added challenge you can even try creating a professional looking quote using one of the many customizable templates that are available in Microsoft Word or Excel.

在本项目中，将练习使用等轴测图形纸创建定制厨房内部的精确绘图。虽然所有的测量和样品设计都已经提供以完成这项任务，但你可以就像专业设计师一样自由地改变厨房的设计。当设计完成后，尝试计算该厨房设计将花费多少，可以尝试使用微软 Word 或 Excel 中可自定义模板来创建专业的报价。

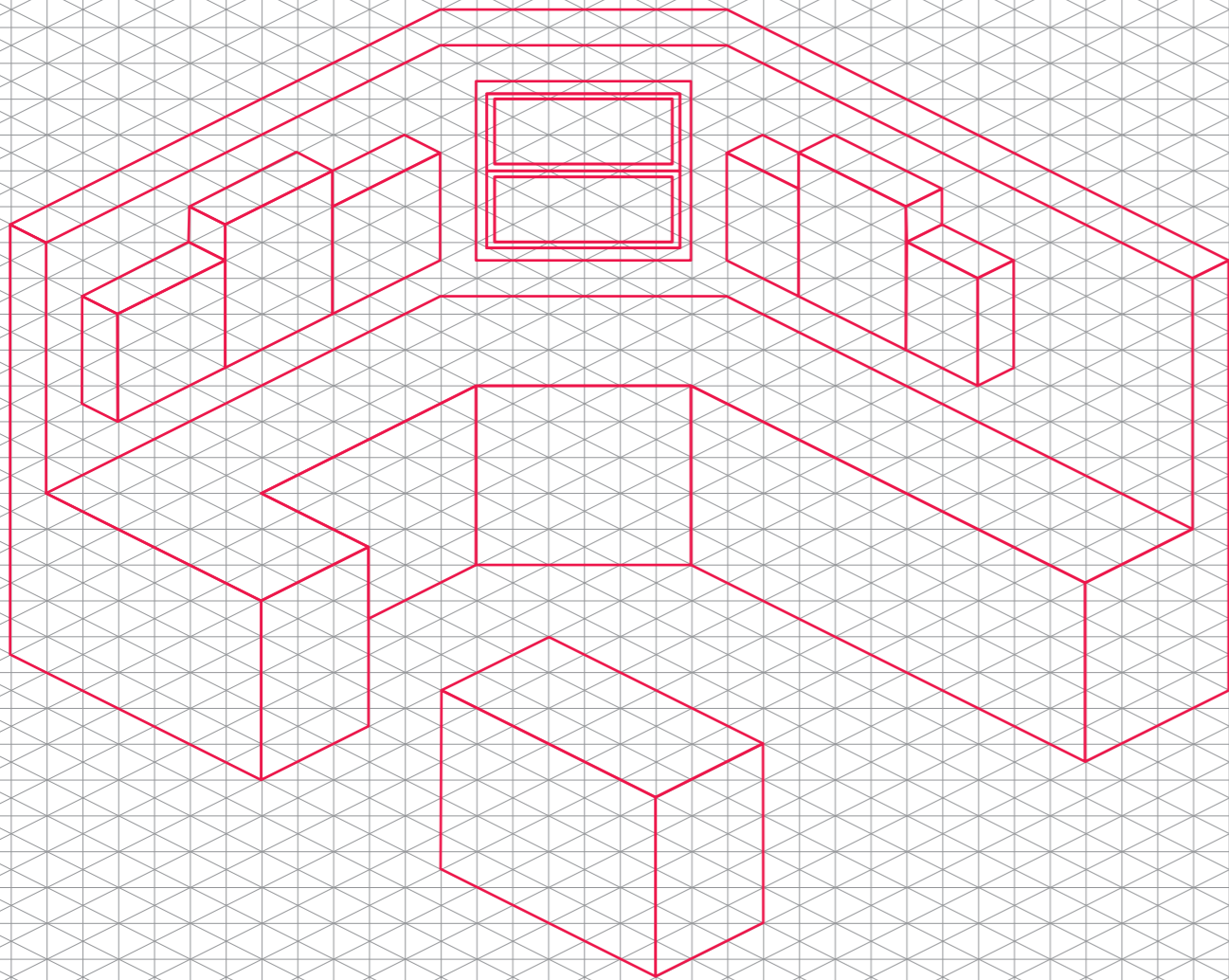
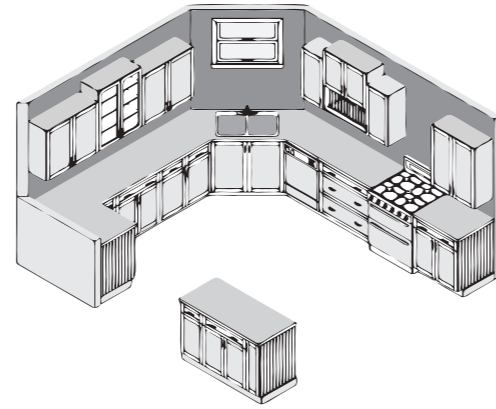
## Instructions 说明

1. Use the provided Isometric Graph Paper to the right of the project exemplar to create a 3D view of a kitchen.  
在右侧提供的等轴测图纸创建厨房的三维视图。
2. Use your own imagination to add things to your kitchen. For example, you can add sinks, stoves, decorative siding to the cabinets etc. Your finished diagram should be unique. You can look at the example to the right to get some ideas for your project, but remember, be creative with your final design.  
给你的厨房添加一些东西，比如水槽，炉子，橱柜壁板等，使你的厨房看起来很独特，可以参考右边所给的例图，记得要有创新性。

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Project:

Designer:

Client:

Date:

Approximate Scale:

**1:40**

Grid Type: 5mm Isometric Grid