

Design a Leprechaun House

Greenprint Recording Sheet

Room	Area	Perimeter
Rainbow Room	$8 \times 5 = 40$ Area: 40 sq. units Perimeter: 26 units	$2 \times (8 + 5) = 26$ Perimeter: 26 units
Gold Room	$10 \times 10 = 100$ Area: 100 sq. units Perimeter: 40 units	$2 \times (10 + 10) = 40$ Perimeter: 40 units

- Greenprint Design Rubric
- I drew at least 4 rooms.
 - I calculated the area of each room correctly.
 - I calculated the perimeter of each room correctly.
 - I showed my work.



Leprechaun Home Form

Name: _____

Location: 711 Lucky Lane

Property Photos

Property Details

This lucky house
It even has a
gold. You can see
colorful rainbow
Smooch Kitchen



AREA & PERIMETER

What's included?

Printable Resources:

Leprechaun House "Greenprint"

 I can find the area and perimeter of closed shapes.

Well hello there!
I'm Jolly McDoodles.
You might have mistaken me for Lucky the Leprechaun, but you see I am not so lucky. I have been looking for a home for some time and they always turn out to be some sort of trap. I've found a nice plot of land, but need some help designing the home.

Can you help me?

Here's what I need you to do:

1. Divide the home into at least 4 rooms.

2. Label the rooms.

3. Calculate the area and perimeter for each room to complete your design report.



Design Checklist

Name: _____

Check your work for the following parts:



I made at least 4 rooms



I calculated the area of each room correctly.



I calculated the perimeter of each room correctly.



I showed my work.

Student comments:

Teacher comments:

- Introduction to the project
- Sample/ Model projects
- 3 grid sizes for designing the house
- Recording Sheet
- Project Checklist
- Extension Activities

Great For:

*Calculating Area using multiplication

*Calculating Perimeter using addition

*Creative thinking

*St. Patrick's Day fun!

SAMPLE "Greenprint" Recording Sheet

Write the name of the room. Write the area and perimeter.
Write the equation to show your work.

Room	Area	Perimeter
Shamrock shake kitchen	$3 \times 5 = 15$ A=15 square units	$5+3+5+3=16$ P=16 units
Green Bedroom	$3 \times 9 = 27$ A=27 square units	$3+3+9+9=24$ P=24 units
Leprechaun Living Room	$5 \times 5 = 25$ $3 \times 2 = 6$ $25+6=31$ A=31 square units	$5+5+8+3+3=24$ P=24 units
Gold Vault	$6 \times 5 = 30$ $3 \times 3 = 9$ $30+9=39$ A=29 square units	$3+3+2+6+9+5=28$ P=28 units

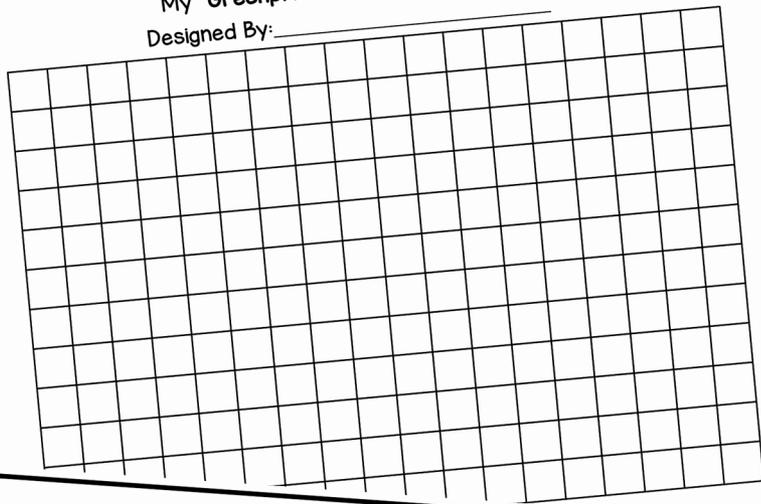


SAMPLE My "Greenprint" for Leprechaun Home
Designed By: Mrs.B

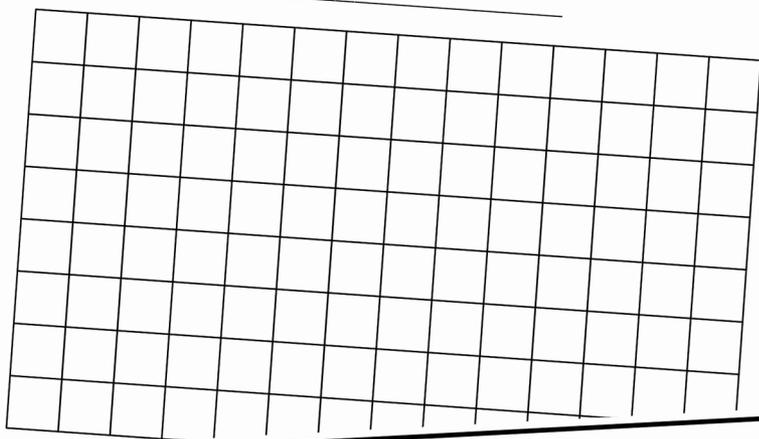
Shamrock Shake Kitchen	Green Bedroom
Leprechaun Living Room	Pot Of Gold Vault

Included samples are great for modeling!

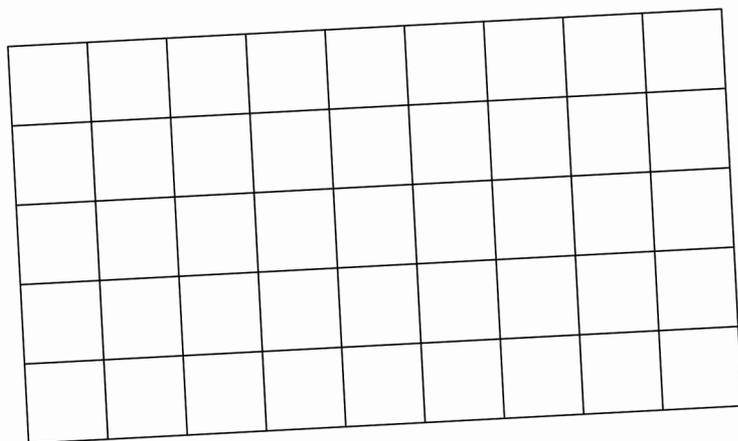
My "Greenprint" for Leprechaun Home
Designed By: _____



My "Greenprint" for Leprechaun Home
Designed By: _____



My "Greenprint" for Leprechaun Home
Designed By: _____



Name: _____

"Greenprint" Recording Sheet

Write the name of the room. Write the area and perimeter. Write the equation to show your work.

Room	Area	Perimeter



Differentiated Grids

A Look Inside Living Like A Leprechaun




Leprechaun Home For Sale!

Listing Agent: _____

Location: _____ Size: _____ sq units

Property Photos





Property Details

Letter To A Leprechaun




Extension Activities

- Trade "greenprint" plans with a partner. Have the partner find the area and perimeter of each of your rooms (use another copy of the recording sheet).
- Choose one of the rooms in your design. Draw (A Look Inside.. drawing page included) and write what the inside of the room would look like (writing page included).
- Write a letter to a leprechaun family to convince them to buy or come to your house. Tell them about different parts of your house they might like (letter writing template included).



**Extension
Activities**