

Design a Leprechaun House

Greenprint Recording Sheet

Write the name of the room, the area and perimeter. Write the required 2 lines and width.

Room	Area	Perimeter
Rainbow Room	$8 \times 5 = 40$ $A = 40 \text{ sq. units}$ $P = 26 \text{ units}$	$8 + 5 + 8 + 5 = 26$ $P = 26 \text{ units}$
Gold Room	$10 \times 5 = 50$ $A = 50 \text{ sq. units}$	$10 + 5 + 10 + 5 = 30$ $P = 30 \text{ units}$

Greenprint Design Rubric

Students will earn one point for each:

- ☒ 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.

Use the name to score student.

My "Greenprint" for Leprechaun Home

Designed By: _____

Lucky Living Room

Gold Room

Shamrock Kitchen

Rainbow Room

Leprechaun Home For

Living Room: _____

Location: 711 Lucky Lane

Property Photos

Property Details

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



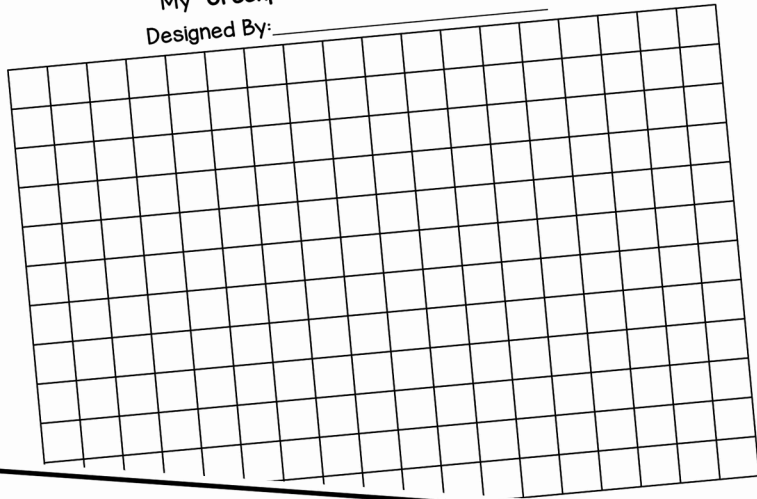
SAMPLE My "Greenprint" for Leprechaun Home

Designed By: Mrs.B

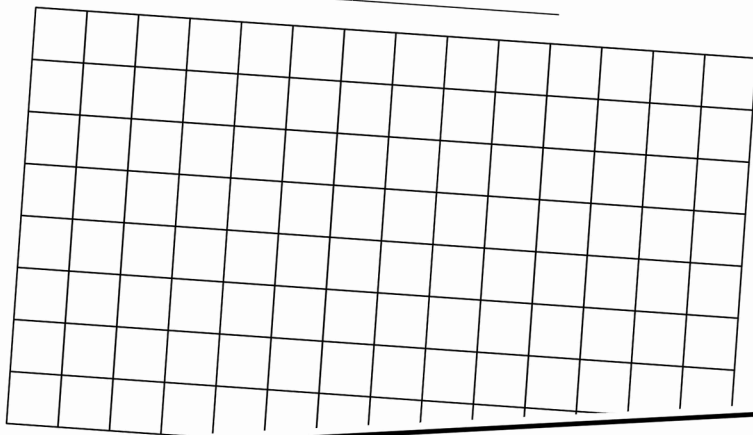
Shamrock Shake Kitchen	Green Bedroom
Leprechaun Living Room	Pot Of Gold Vault

Included
samples are
great for
modeling!

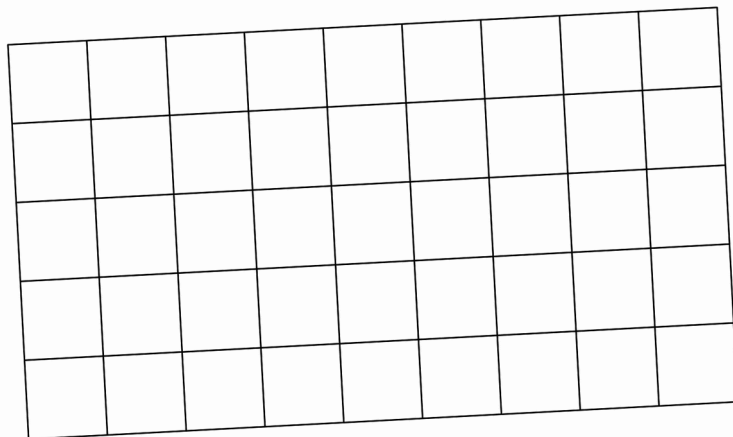
My "Greenprint" for Leprechaun Home
Designed By: _____



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

Room	Area	Perimeter



Differentiated Grids

A Look Inside Living Like A Leprechaun

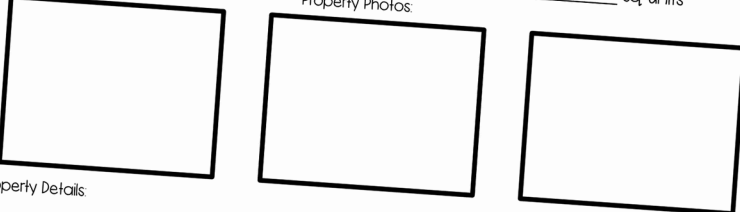


Leprechaun Home For Sale!

Listing Agent: _____

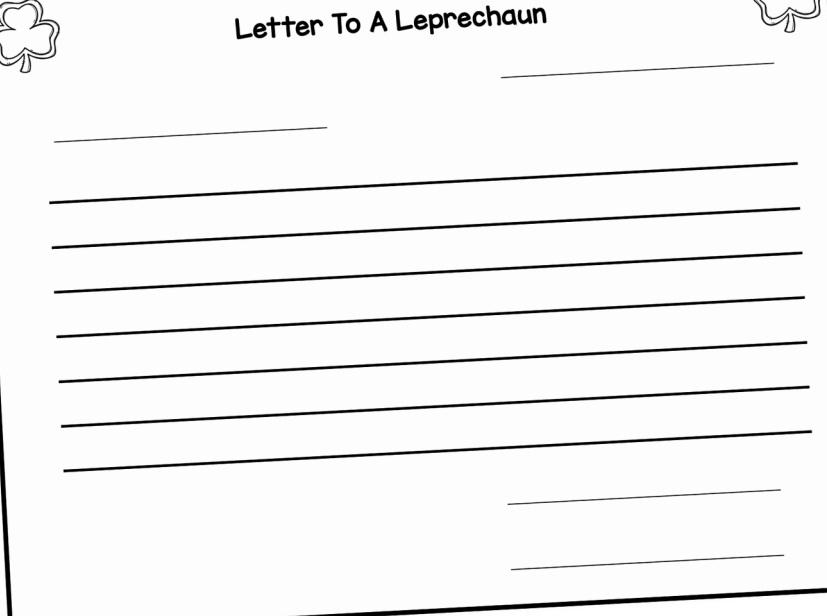
Location: _____ Size: _____ sq. units

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