

INCH

YARD

METRE

CENTIMETRE

MILLIMETRE

LITER

KILO

TON

FOOT

POUND

OUNCE

1. There are 100 millimeters in a metre.
2. Centi means one hundred.
3. Large measurements are in cm and mm.
4. A kilometre is one thousand metres.
5. Mass is measured in grams.
6. In the United States most people use the metric system.
7. The metric system is logical and easy to use.

Answers

1. False. There are 1,000 mm in a metre
2. True
3. False. Large measurements are in Kilometres
4. False. A km is 1000 m
5. True
6. False. In the US most people use the customary system (foot,feet,yard,pounds,miles,...)



### *Use Metrics (8x)*

I know that you think metric system seems hard  
But in reality, it's not that hard  
You'll thank us for showing you an easy way  
To know the way it goes for the rest of your days  
I know at time it gets confusing and such  
But the metric system is a must  
So sit there, listen up and follow me  
'Cuz the metric system's easy



### *Use Metrics (8x)*

King Henry Died Monday Drinking Chocolate Milk  
That's the rhyme so you can remember it all the time  
It's like that  
It's easy, it's easy can be  
You'll learn it forward and back so easily  
Let 'em know the metric system's not tough  
When it comes to this- man we're just too much  
Do it now, sit back and listen  
Then you'll learn the metric system



## *Use Metrics (8x)*

K stands for **Kilo**, H for **Hecto**, D for **Deka**

And M- M is the basic unit,

There's **meters**, **liters**, and **grams**

**Meters** measures length-my man, **grams** measures weight and

**Liters** measure capacity of containers- my friend

**Decimals** are used in the metric system

Keep 'em in your head you won't forget 'em

Hey - yo - it's so easy you see

come on everybody and sing the chorus with me



### *Use Metrics (8x)*

Now that you learned the first 4, now it's time to learn some more

d is **deci**, c is **centi** m is **milli** , that's it really

We're winners - let's put 'em together

When you hear it, it sounds kind of clever

**K**ing **H**enry **D**ied **M**onday **D**rinking **C**hocolate **M**ilk

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KILOMETRE

HECTOMETRE

DEKAMETRE

METRE

DECIMETRE

CENTIMETRE

MILLIMETRE

## SHORT STORY ON ROUNDING

There is a family of grown-ups living in a neighbourhood. (Draw a number line with 10 houses in a row and a "fence" in between each house). The families' names are 0, 10, 20, 30... One day a roly polly round kid named "21" walks into the neighbourhood. She wants to go to the house she is closest to. Twenty-one knows she's more than 20 but less than 30, so what house should roly polly "round" to? (Laminate a roly polly round kid and let the students use the wipe off marker to write the new numbers as we go. Have also magnetic chalkboards and put a magnet on the back for easy mobility).

**Follow up:** make a large chart with all of the tens numbers. Divide ss in groups of 5. Each team has a roly polly round kid. Say a number and the first player from each team has to stick the roly polly round kid in the correct house...

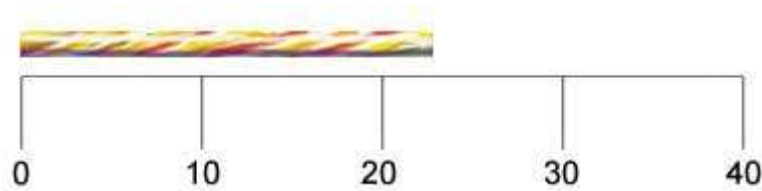
## What is rounding?

Rounding is a way of simplifying numbers.



This gate is 5 metres and 7 cm long. **Can you round it to the nearest 10?**

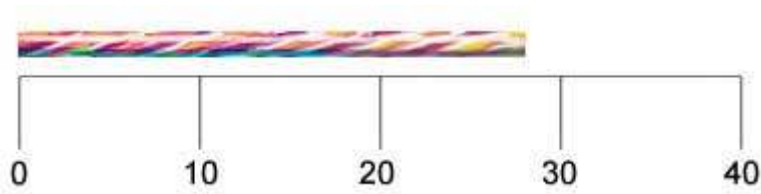
Here is another example. The picture shows a stick of rock next to a ruler. The ruler has only got the **10 cm** points marked on it.



We can't see exactly how long the rock is. But we can see to the nearest **10**. The end of the rock is close to

the **20 cm** mark. So we say that the rock is **20 cm long to the nearest 10.**

What about this longer stick. How long is it to the nearest 10?



It is closer to **30 cm** than **20 cm**. So we say it is **30 cm long to the nearest 10.**

Rounding numbers to the nearest 10 means finding which 10 they are nearest to.

## LET'S PRACTISE

A swimming pool is 27 meters long. How long is it to the nearest 10?



### Answer

27 is between 20 and 30. So 27 will get rounded to either 20 or 30. To get the right answer we need to decide whether 27 is nearer to 20 or 30. You can see from the picture that it is closer to 30. So 27 is rounded up to 30.

## SO WHAT ARE THE RULES?

In this way we get the rules about rounding up and down.

**1, 2, 3 and 4 get rounded down**

**5, 6, 7, 8 and 9 get rounded up**

These rules work for all numbers, whether you are using **tens, hundreds or thousands** (or anything else).

1, 2, 3, 4

Round **DOWN** to the ten before.

5, 6, 7, 8, 9

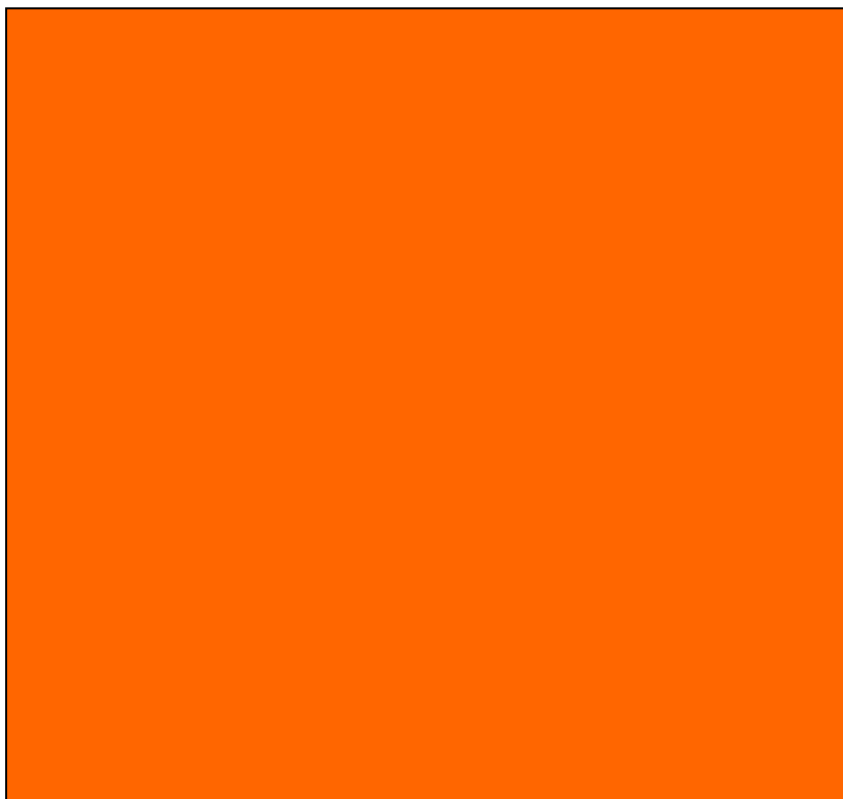
Round **UP** to the next ten on the  
number line.



## SUPPORT RESOURCES 8

I'm 2 metres. Round 325cm to the nearest metre.	I'm 50 cm. Round 32cm to the nearest 10cm.	I'm 4 metres. Round 88cm to the nearest 10cm.
I'm 3 metres. Round 23mm to the nearest cm.	I'm 30cm. Round 697cm to the nearest metre.	I'm 9cm. Round 289m to the nearest Km.
I'm 2cm. Round 1200m to the nearest km.	I'm 7 metres. Round 54mm to the nearest cm.	I'm 3 Km. Round 4000mm to the nearest m.
I'm 1km. Round 886km to the nearest 100km.	I'm 5cm. Round 2800m to the nearest Km.	I'm 4 metre. Round 89 dm to the nearest metre.
I'm 900km. Round 578cm to the nearest metre.	I'm 3Km. Round 623Km to the nearest 100Km.	I'm 9 metre. Round 3238mm to the nearest metre.
I'm 6 metres. Round 52cm to the nearest 10cm.	I'm 6Km. Round 423cm to the nearest m.	I'm 3 metre. Round 23dm to the nearest metre.

SUPPORT RESOURCES 9







**Procedure to use Google Earth and prepare the Images below:**

1. Download the freeware version of Google Earth at <http://earth.google.com>
2. After downloading Google Earth.exe, double click on the "GoogleEarth" icon (this icon looks like a globe in a cardboard box). Follow the installation instructions and then launch Google Earth.
3. Enter the name of your town or city in the "Search" field in the upper left hand corner and then press "Enter" on your keyboard.
4. By clicking and holding the mouse button you can "grab" and then move the Google Earth image. In this manner, move around your town or city and identify a square, triangular, or rectangular structure for which students will calculate the perimeter and area.
5. Now, click on the upper menu. Select the "Ruler" function. Select the units you want to use from the upper menu.
6. Measure the length of the structure you selected by clicking on one corner of the structure, releasing the mouse button, and then clicking on an adjacent corner of the structure. Write down this measured length and then repeat this procedure to measure the width (or height) of the structure.
7. Close the "Ruler" tool. Select "Save Image." Name this image and then save it to your desktop.
8. Open this image by double clicking the corresponding icon on your desktop.
9. Open the Word document containing the Google Earth image.
10. Use the Microsoft Word line drawing tool to draw coloured lines along adjacent sides of the structure. For triangular structures, draw the coloured lines along the base and height.
11. Use a text box (the button that looks like an index card on the "Drawing" toolbar) to label the length of the structure. Open another text box and label the width (or height) of the structure.
12. Save and print the labelled image.

IMAGE #1 (PARC DE LA CIUTADELLA)

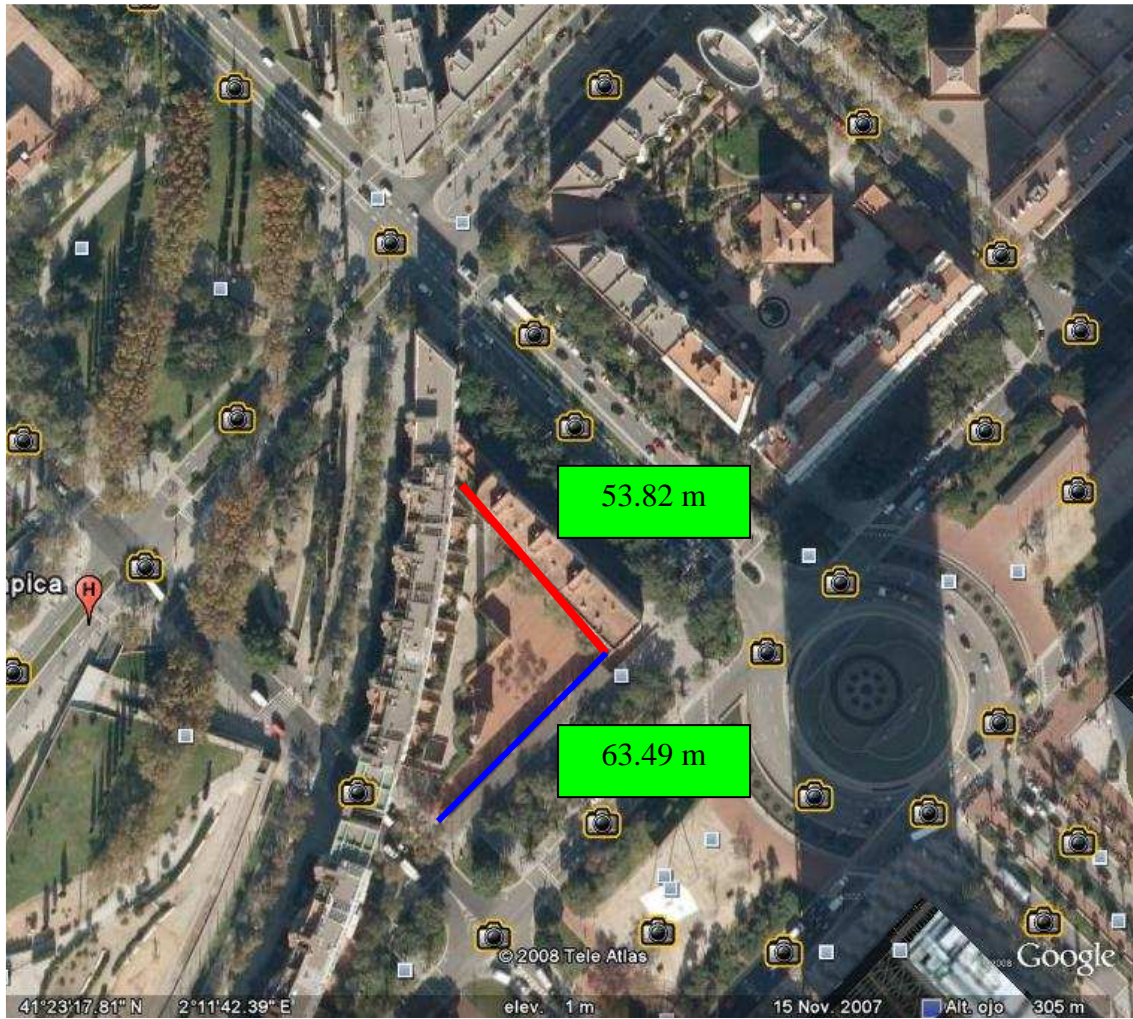




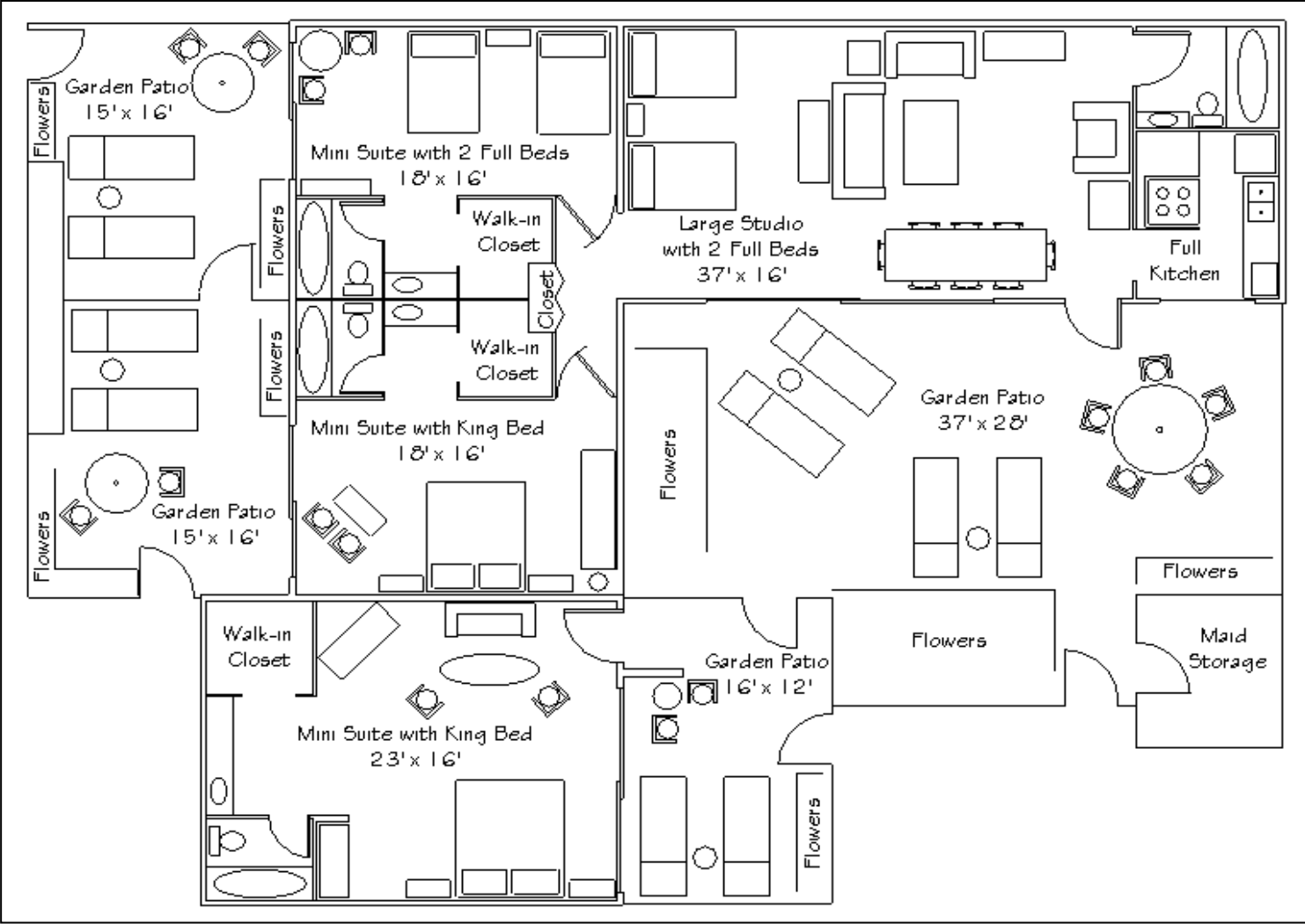
IMAGE #2 (HOTEL ARS)



IMAGE #3 (TRIANGLE SHAPE)



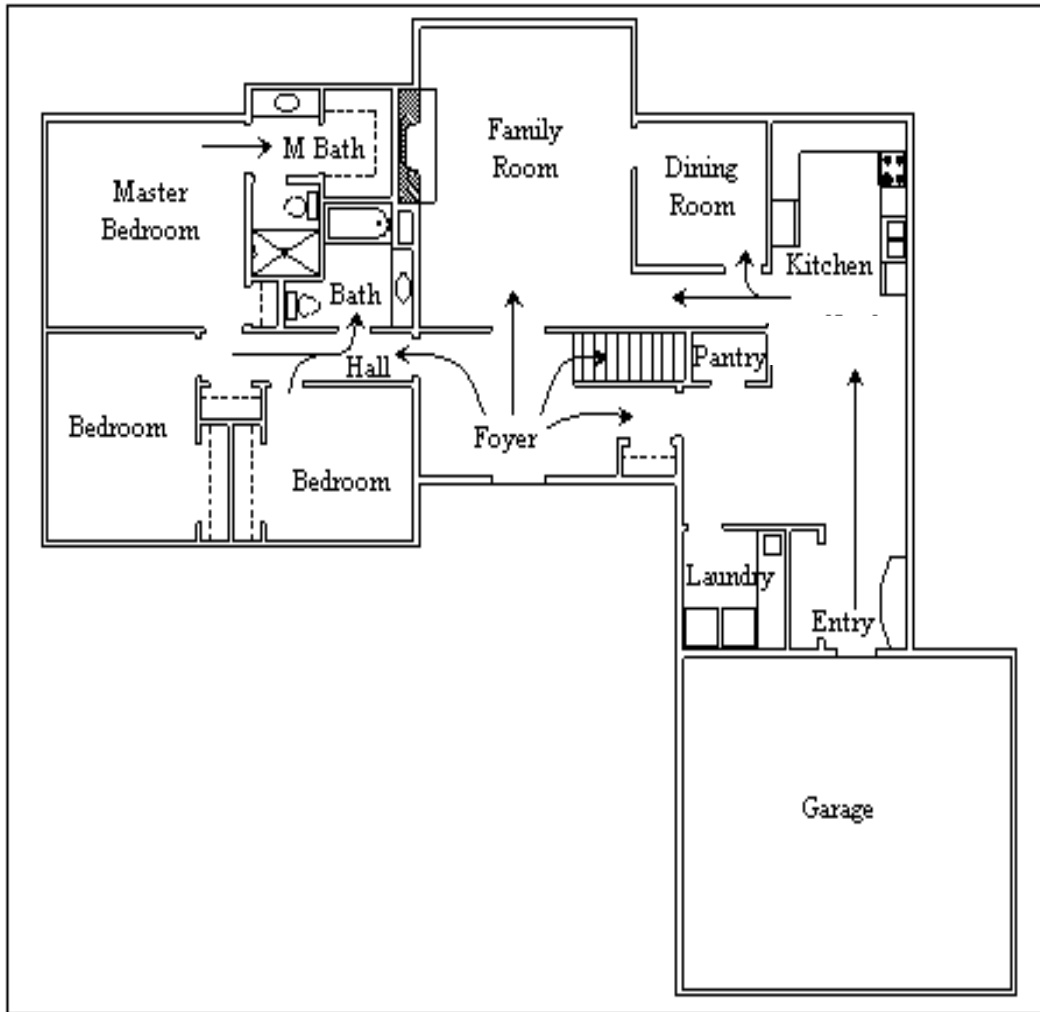




FLOOR PLAN 1

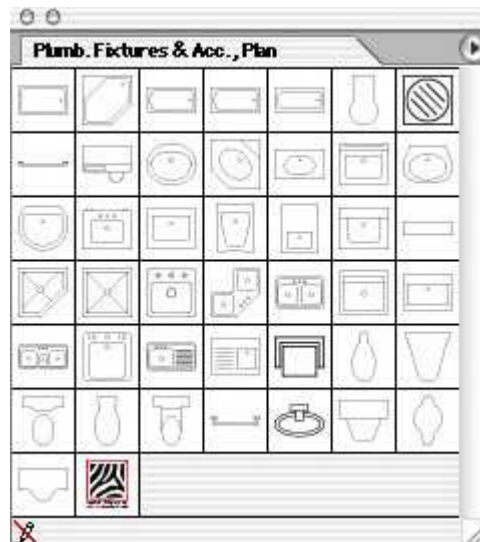
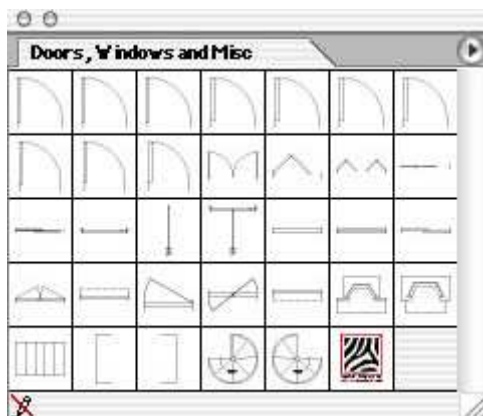
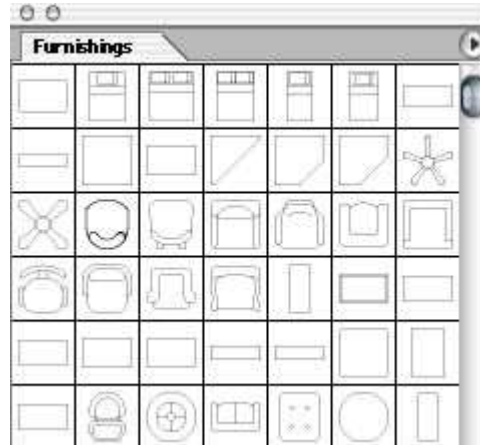
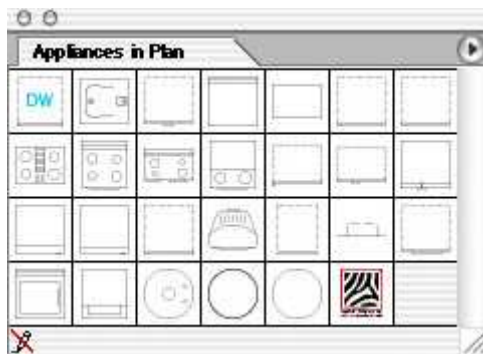


FLOOR PLAN 2



FLOOR PLAN 3

## GRAPHIC SYMBOLS FOR ARCHITECTURAL DRAWINGS





Which graphic symbols do you usually use?



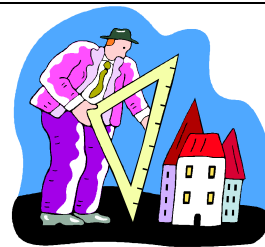
Why do architects use scale drawings?



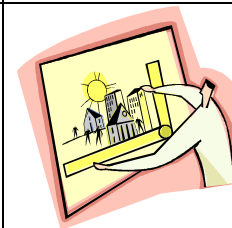
What do you need to take into account before drawing a floor plan?



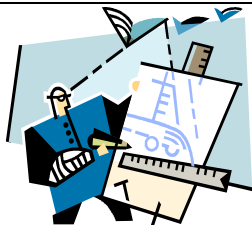
Do you use a computer to draw your floor plans?



What's the biggest floor plan you've ever drawn?



How many days do you take to draw a floor plan?



## DREAM HOUSE GENERAL GUIDELINES

Each home must have:

- between 3 and 6 rooms (bathroom, bedroom, kitchen, living room/dinning room).
- a garden is optional.
- each room must have 3 items plus a window and a door.
- if you have a dog and a garden, there must be a kennel.

ALL ROOMS MUST HAVE THE DIMENSIONS LABELED!!!

- Each room must have enough space so that necessary things can fit in it. (a bathroom for instance must have space for a bathtub, sink and toilet)
- When introducing the lesson, remind ss even though they are not required to find the dimensions of each item, there must be enough space for the item to fit in the room properly.
- Students must fit 3 different items in each room .

