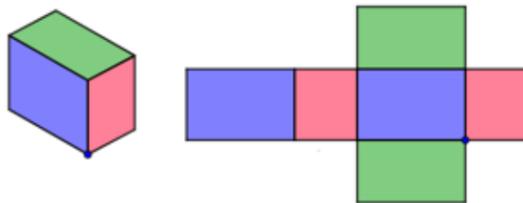


6.3 Create Nets, Plans, and Patterns

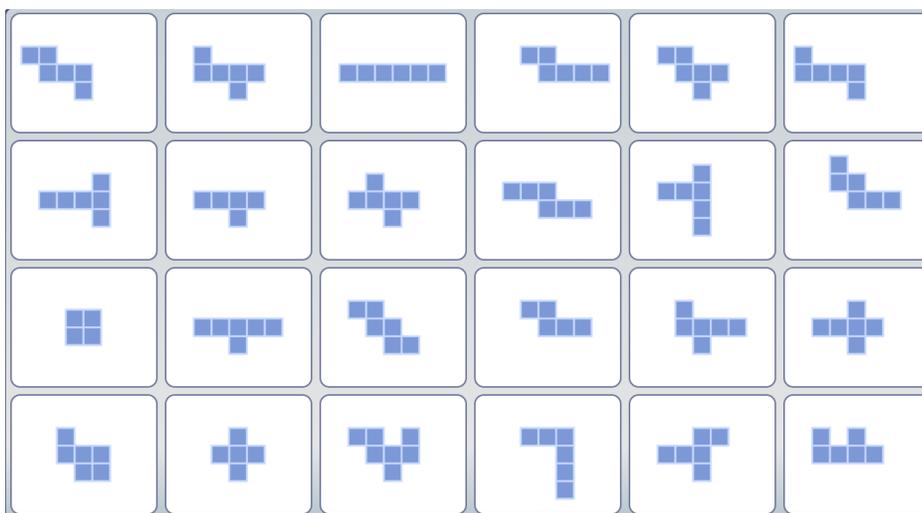
A Nets

- ✓ A two-dimensional diagram that can be cut out, and folded to form three-dimensional objects
- ✓ To get the net of a three-dimensional object, fold out flat all sides

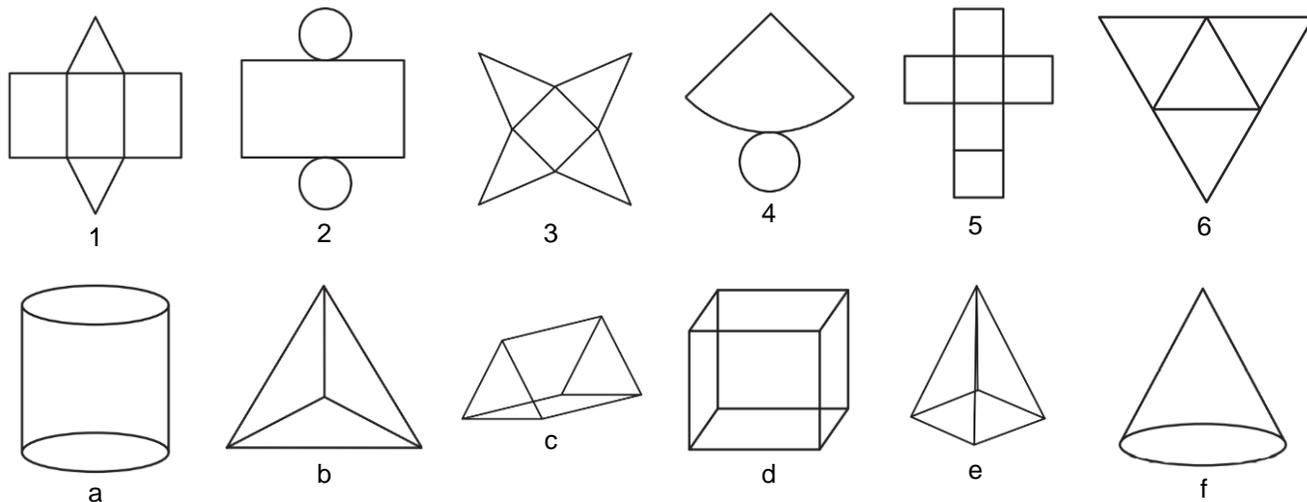
Example. Here is a rectangular box and its net.



Activity 1. A net is a two-dimensional figure that can be folded into a three-dimensional object. Which of the nets below, if folded, will form a cube?



Activity 2. Match each net to its corresponding 3D shape.



B Plans

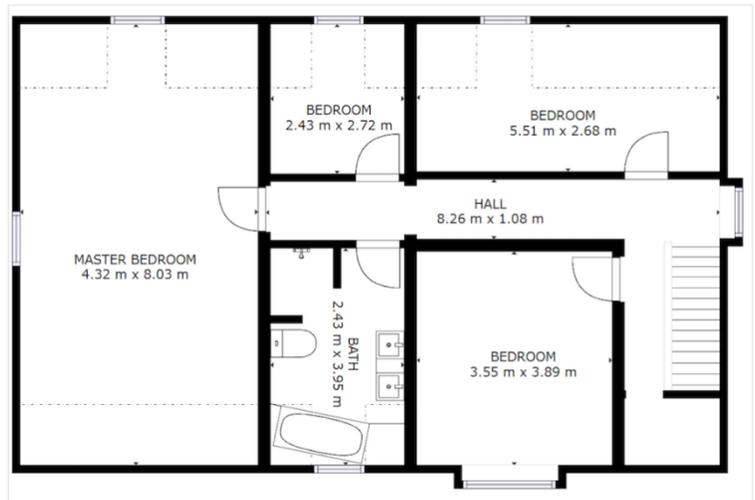
- ✓ A scale drawing of a structure or object
- ✓ A design or arrangement scheme

Activity 3. (Reading a plan) On the figure below is represented the plan for the second floor of a house.

a) What is the length of house?

b) What is the width of the house?

c) What is the living area of the second floor?



d) How much will cost to construct the second floor if the cost per square foot is \$200?

C Patterns

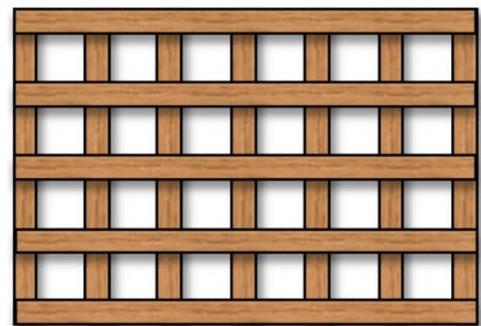
- ✓ A form, template, or model from which an object can be created

Activity 4. (Building a trellis by using a template) You are building a trellis by using the template shown below and 2 inches wide slats. A **1:2 spacing** means the “gap” is two times as wide as the slat.

a) Find the length and the height of this trellis.

b) Find the total length of all slats you need.

c) Is the cost per inch of the slat is 10 cents per inch, find the cost to build this trellis.



1:2 spacing

d) Find the openness (the percentage of the area that is “gap”) for this trellis.

Reading Pages 318-321

Homework Pages 322-324 # 1, 5, 7