

Hand In – Design Modeling

Name: _____

Total Marks: _____/14

1. Determine the value of x in this proportion:

$$\frac{7}{8} = \frac{x}{4}$$

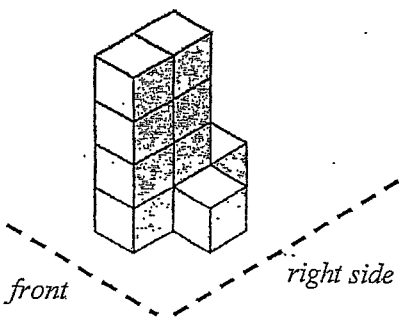
2. For drafting class, Kelsy is building a scale model of the Great Pyramid of Khufu. The actual pyramid is 455ft. If she uses a scale of **1 cm : 50 ft**, calculate the height of her scale model.

3. Fern went to Italy. She bought a scale model of the leaning tower of Pisa that is 7.4 cm high. The model is at a scale of **1 cm : 25 ft**. Calculate the actual height of the tower.

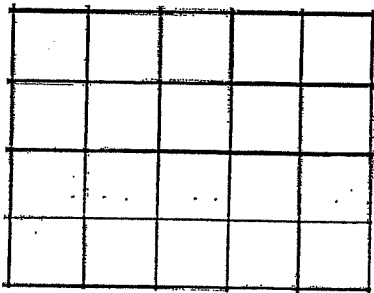
4. An adult female Great White Shark measures 6.1 m. A scale diagram represents the shark at 1.5 m. Calculate the scale factor used to create this diagram (*hint: use your formula*).

5. Draw the listed plans for this 3D object:

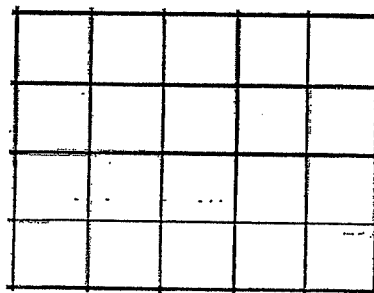
14



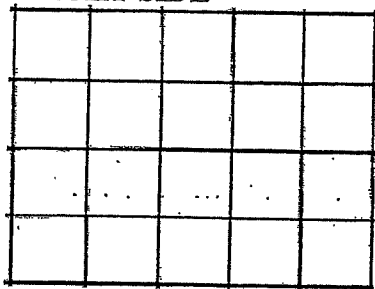
TOP



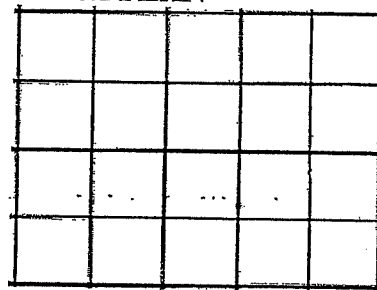
FRONT



RIGHT SIDE

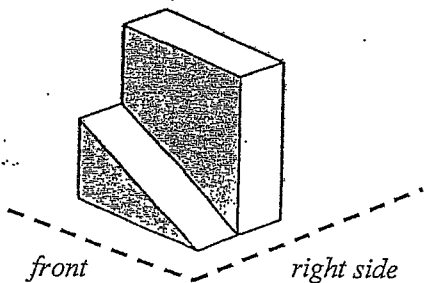


BASE PLAN

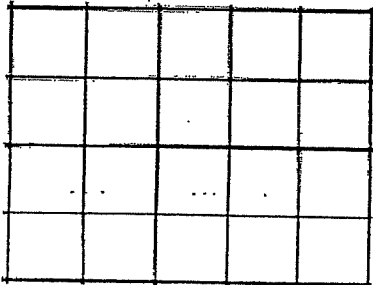


6. Draw the listed plans for this 3D object:

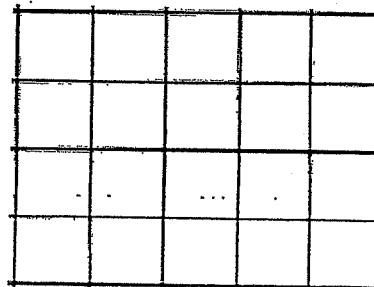
2



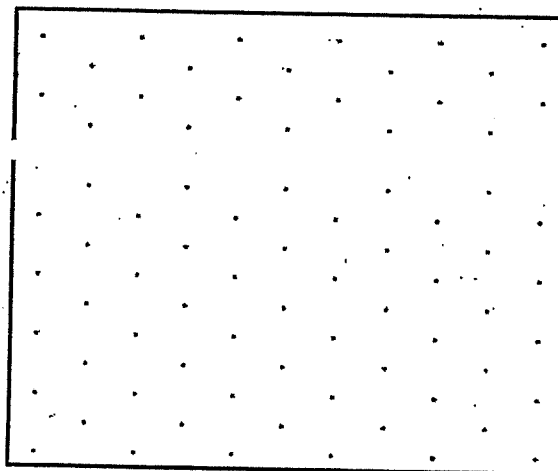
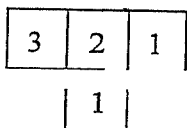
TOP



FRONT



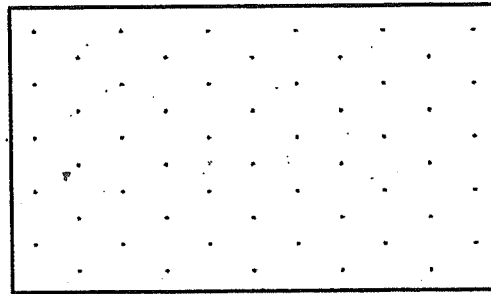
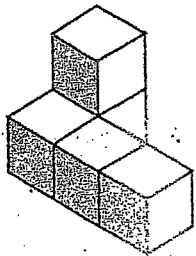
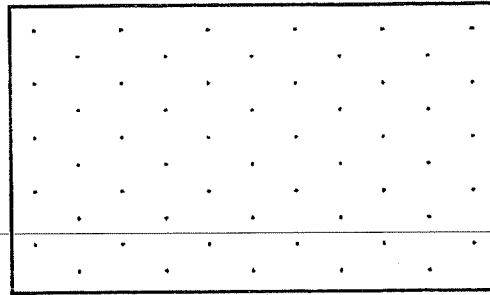
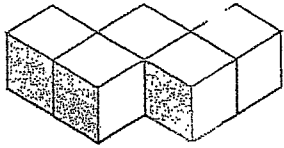
7. Draw this shape on isometric dot paper (you may use blocks to build from the base plan):



Plans and Elevations of 3D Objects

/9 Marks

3D Object



1	4	1	1
	1		

