

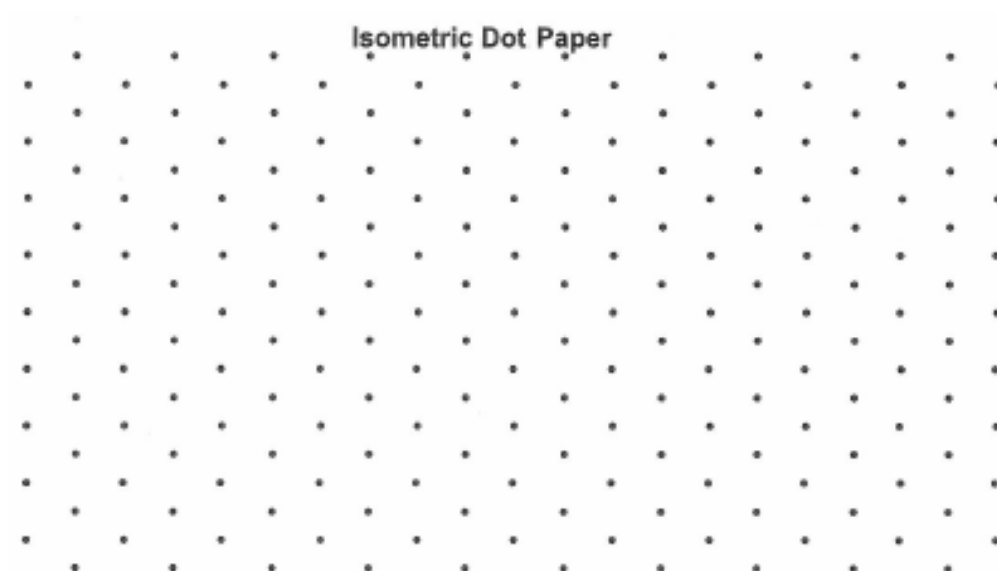
**GRADE 11 ESSENTIAL  
UNIT H – DESIGN MODELING  
2D AND 3D VIEWS**



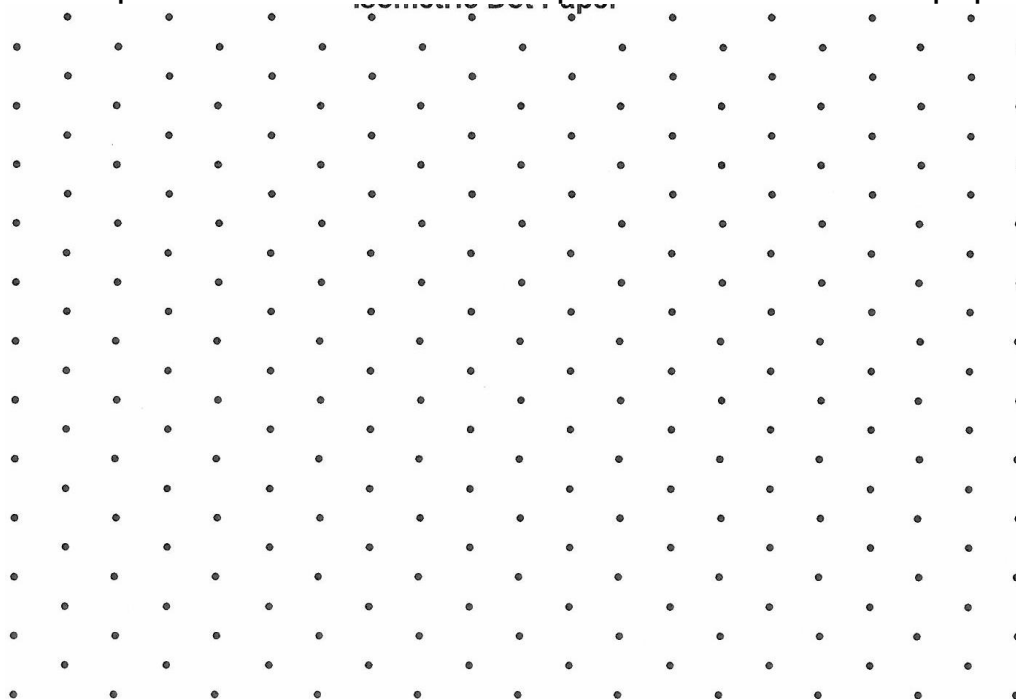
Name: \_\_\_\_\_

Date: \_\_\_\_\_

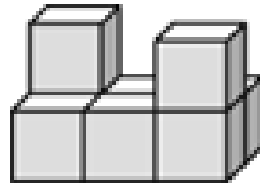
1. On isometric dot paper, draw a cube with edges of length 4 units.



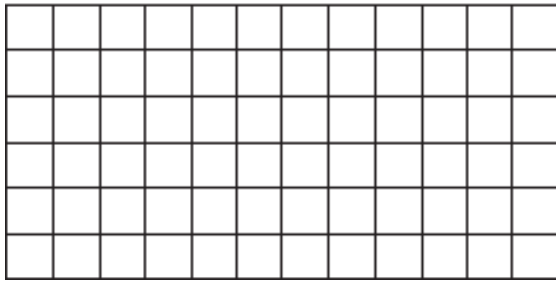
2. A triangular prism has a cross-section base shape that is a right-angled triangle with a base of 4 units and a height of 3 units. The length ( $h_{obj}$ ) of the prism is 5 units. Draw the prism on isometric dot paper.



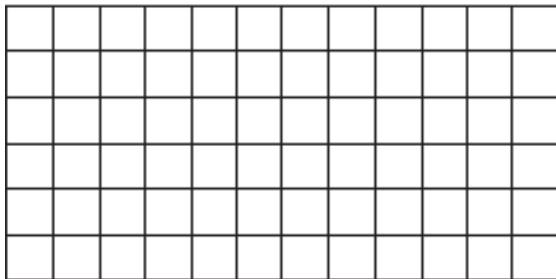
3. Draw the top (plan), front, and right orthographic views for the following structure. Make the outline of closer blocks bold.



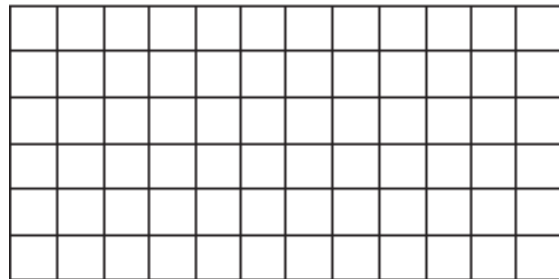
**Front**



Top (Plan) View

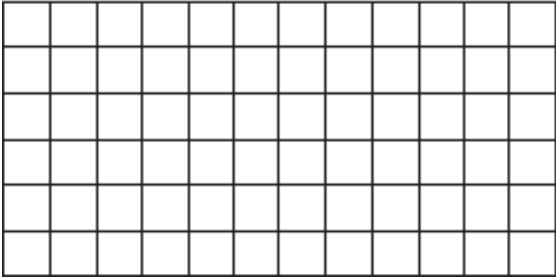
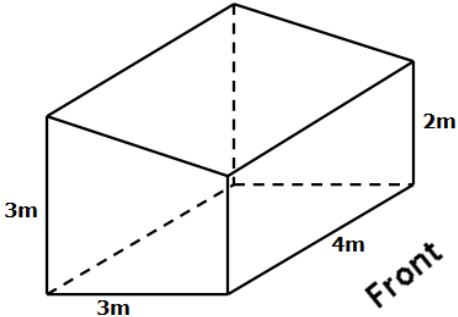


Front

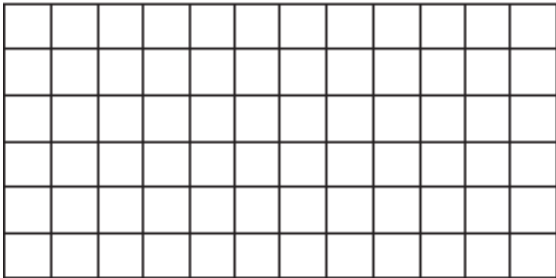


Right

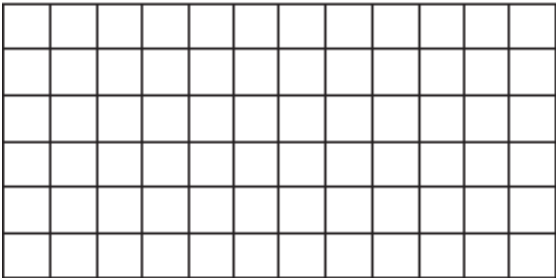
4. Create orthographic drawings of the front view, left side view and top (plan) view of the shed below. Use a scale of 1 square to 1 metre.



Top (Plan) View

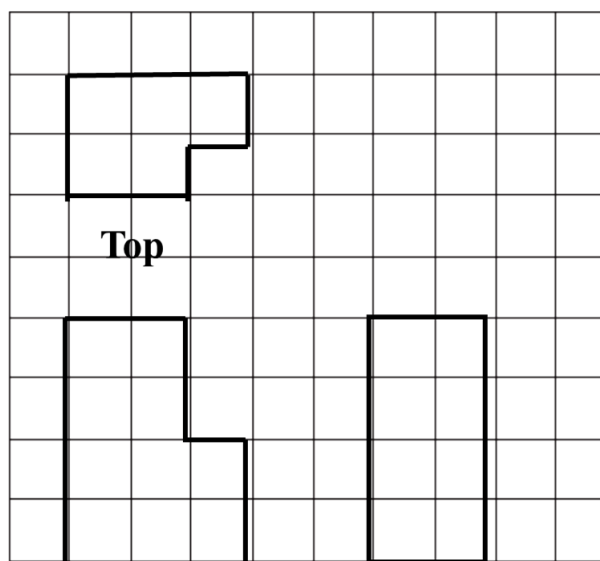


Left



Front

5. Create an isometric dot drawing of the orthogonal views below.



**Front**

**Right**

**Isometric Dot Paper**

