Problem of the Week
Problem B
You Know My Name

You can create letters of the alphabet that look three-dimensional by using isometric dot paper. From such a 3-dimensional image, you can create a front, side, and top view using centimetre square paper.

On the other hand, one can reverse this process, and use the three views (side, top, and front) to create the corresponding 3-dimensional letter.

For example, the views shown at the right would lead to a 3-dimensional version of the letter L, shown below.

a) Use connecting cubes to create a 3-dimensional construction of the letter F. Then draw the three views (side, top, and front) on grid paper, and the 3-dimensional image on isometric dot paper.

b) Using isometric dot paper, draw your initials. Create a side, front, and top view of each letter on centimetre grid paper. Exchange your views with a partner and draw each other’s 3-dimensional images on isometric dot paper (or create a 3D version using connecting cubes).

A sample of isometric dot paper and centimetre square paper is provided on the next page for your use.
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