

Numeracy Year 9 – Week 6: Space

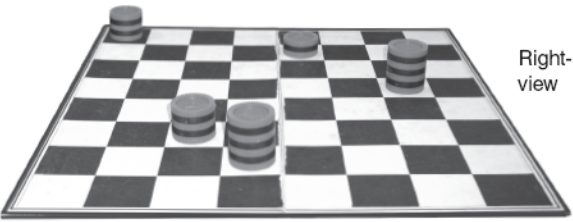
STUDENT WORKSHEET

Focus of the week

Visualising 3D objects given isometric, orthogonal or oblique drawings

Question 1

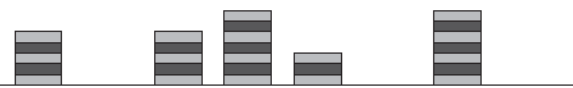
Five stacks of counters have been left on a checkers board.



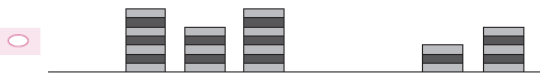
Right-side view


Front view

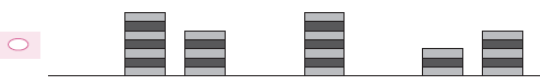
This is a Front view

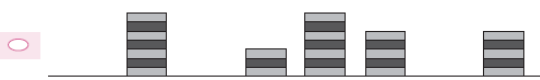


Which one is the Right-side view?



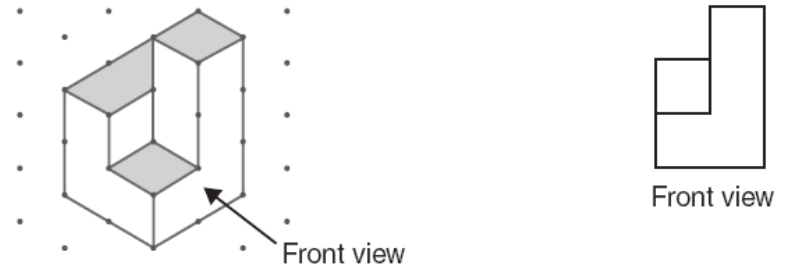






Question 2

This 3D solid is made from 8 cubes glued together.
The front view is drawn.



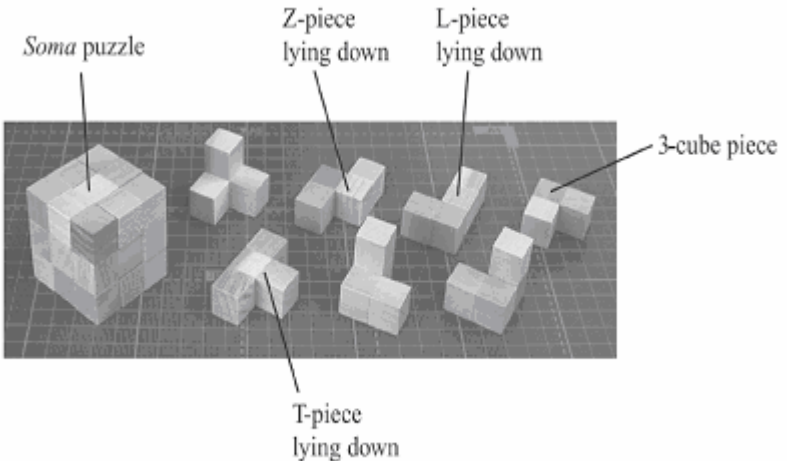
On the grid below draw the left-side view and the top view of the object.



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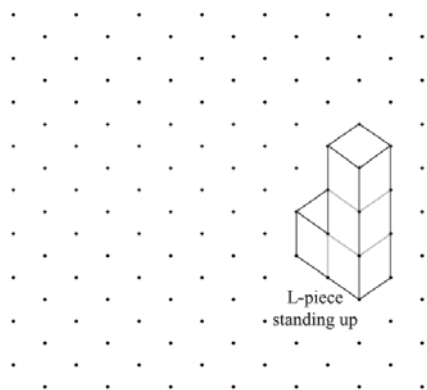
Question 3



The image shows a Soma cube assembly on the left, labeled "Soma puzzle". To its right are the seven individual pieces: a Z-piece lying down, an L-piece lying down, a 3-cube piece, and a T-piece lying down.

The Soma puzzle consists of seven pieces made by joining 3 or 4 wooden cubes together.

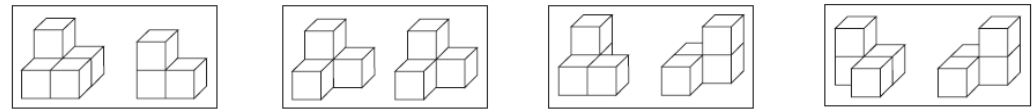
Draw the Z-piece in any 'standing-up' position.



The drawing area consists of a 10x10 grid of dots. An L-piece is shown standing up in the bottom right corner of the grid, with the label "L-piece standing up" below it.

Challenge Question

Which pair of solid objects **cannot** be joined together to make a cube?



Four pairs of solid objects are shown in boxes. Each pair consists of two 3D shapes made of cubes. Below each box is a pink circle for shading.

Shade one bubble.

