

姓名: Amma Tai Pak Yee (16) 班別: 5A 日期: 17/3/2023

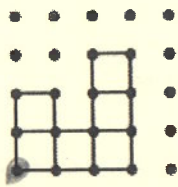
Problem Solving with Cubes

Questions 1-5: Build each of the cube models shown below and sketch the three views and the base design for each model in the grids supplied. Assume that no "hidden" cubes exist in the models other than those used to support visible cubes. The first one is done for you as an example.

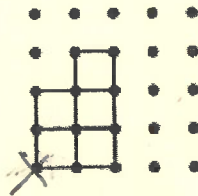
1. Cube Model



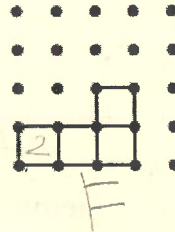
Front View



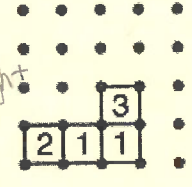
Right View



Top View



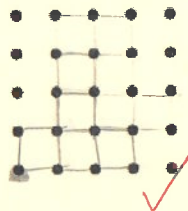
Base Design



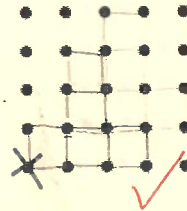
2. Cube Model



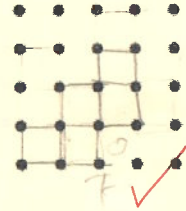
Front View



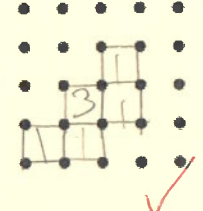
Right View



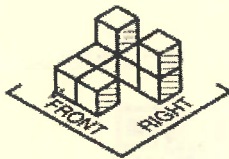
Top View



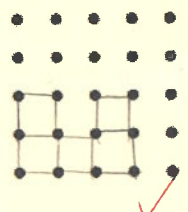
Base Design



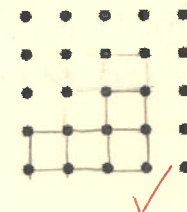
3. Cube Model



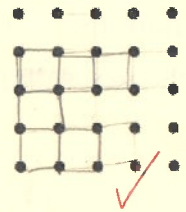
Front View



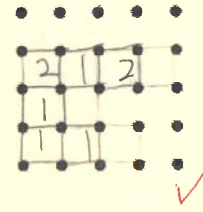
Right View



Top View



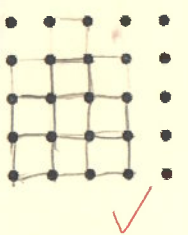
Base Design



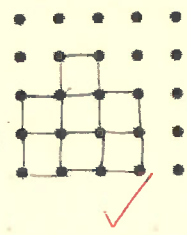
4. Cube Model



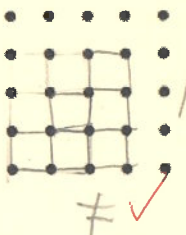
Front View



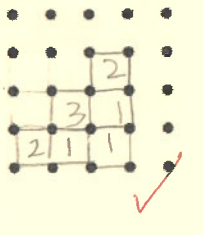
Right View



Top View

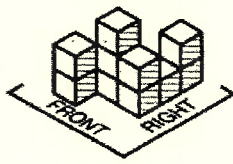


Base Design

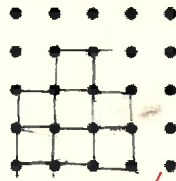


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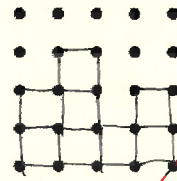
Cube Model



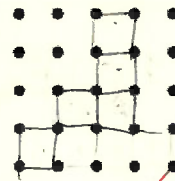
Front View



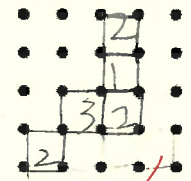
Right View



Top View

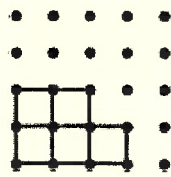


Base Design

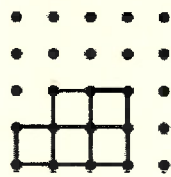


6. Use eight cubes to construct a cube model of the following design. Draw the base design on the grids below. Give the front, right, and top views to a class member and challenge her or him to reconstruct your model.

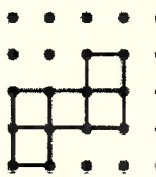
Front View



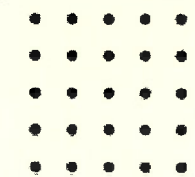
Right View



Top View

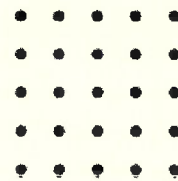


Base Design

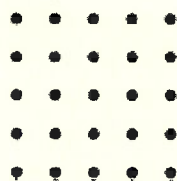


7. Use seven or eight cubes to build a model that has the top view shown below. Once completed, draw the front view, right view, and base design of your cube model on the remaining grids. Copy the front view onto another grid. Give the grid to a class member and challenge her or him to reconstruct your model.

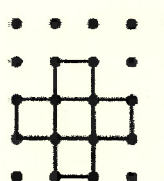
Front View



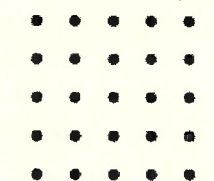
Right View



Top View



Base Design



NCTM Illuminations Isometric Drawing Tool

<https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Isometric-Drawing-Tool/>

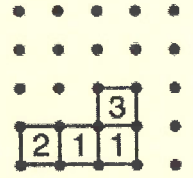
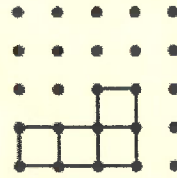
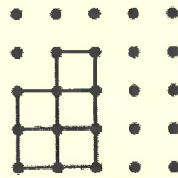
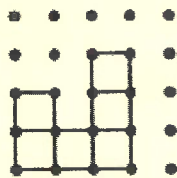


姓名: Elizabeth Zhu (36) 班別: 5A 日期: 17th March, 2023

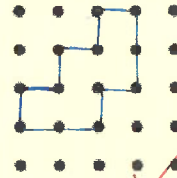
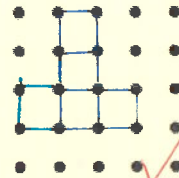
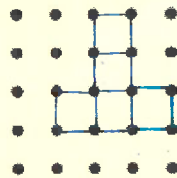
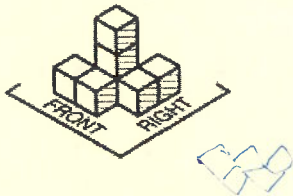
Problem Solving with Cubes

Questions 1-5: Build each of the cube models shown below and sketch the three views and the base design for each model in the grids supplied. Assume that no "hidden" cubes exist in the models other than those used to support visible cubes. The first one is done for you as an example.

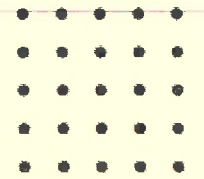
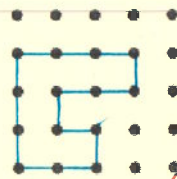
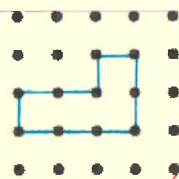
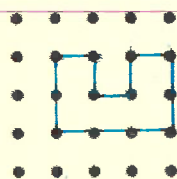
1. Cube Model Front View Right View Top View Base Design



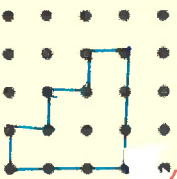
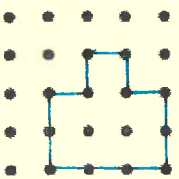
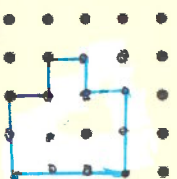
2. Cube Model Front View Right View Top View Base Design



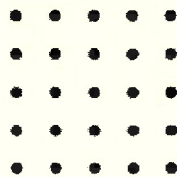
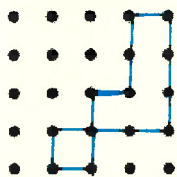
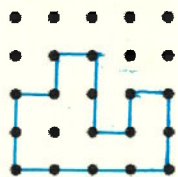
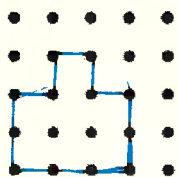
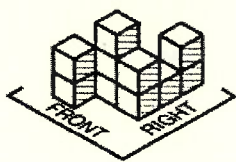
3. Cube Model Front View Right View Top View Base Design



4. Cube Model Front View Right View Top View Base Design



5. **Cube Model** **Front View** **Right View** **Top View** **Base Design**



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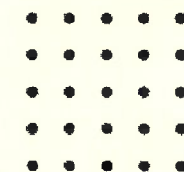
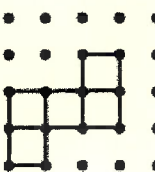
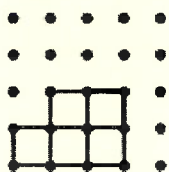
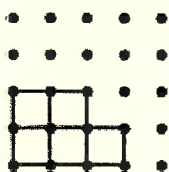
Good!

Front View

Right View

Top View

Base Design



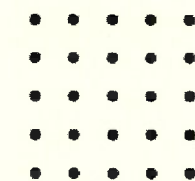
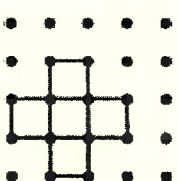
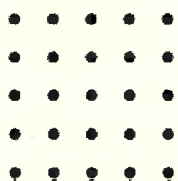
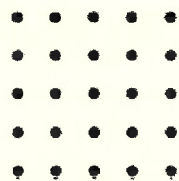
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Front View

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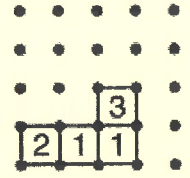
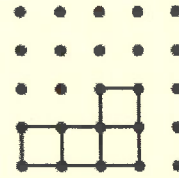
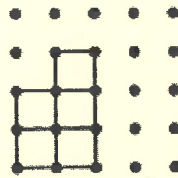
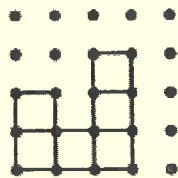
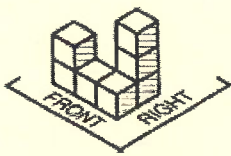


姓名: 伍卓婷 (25) 班別: 5A 日期: 17-3-2023

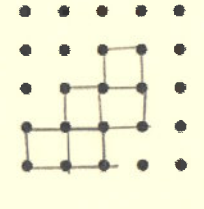
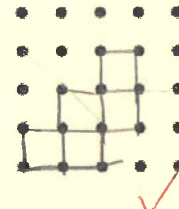
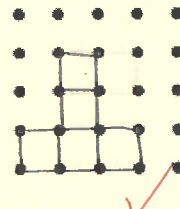
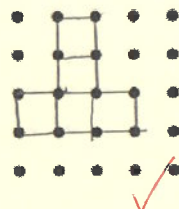
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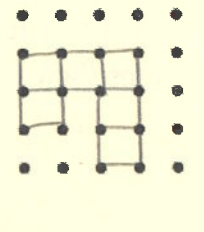
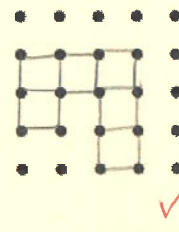
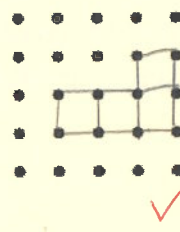
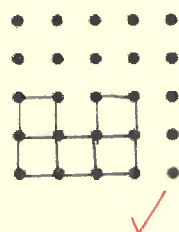
1. Cube Model Front View Right View Top View Base Design



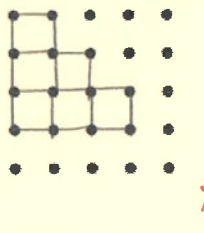
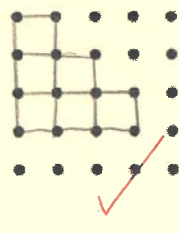
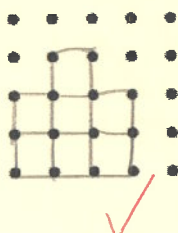
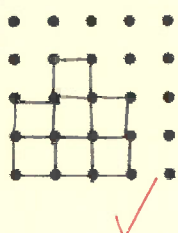
2. Cube Model Front View Right View Top View Base Design



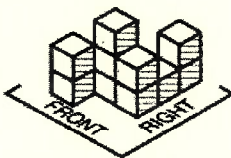
3. Cube Model Front View Right View Top View Base Design

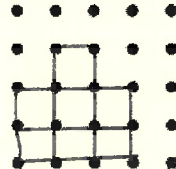
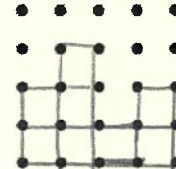
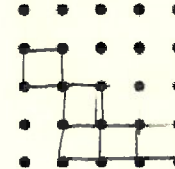
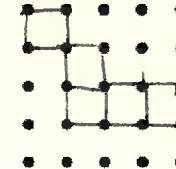


4. Cube Model Front View Right View Top View Base Design



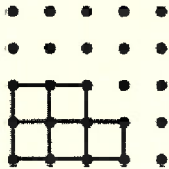
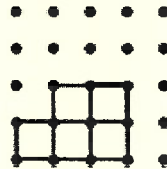
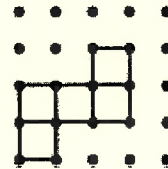
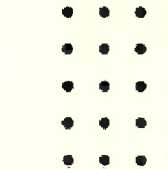
5. **Cube Model**



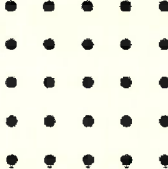
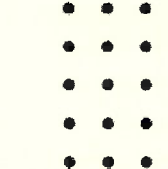
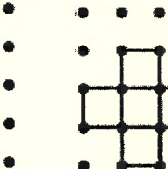
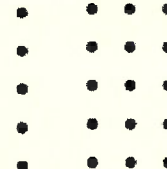
Front View	Right View	Top View	Base Design
			

✓ ✓ ✓ ✗

6. Use eight cubes to construct a cube model of the following design. Draw the base design on the grids below. Give the front, right, and top views to a class member and challenge her or him to reconstruct your model. Good!

Front View	Right View	Top View	Base Design
			

7. Use seven or eight cubes to build a model that has the top view shown below. Once completed, draw the front view, right view, and base design of your cube model on the remaining grids. Copy the front view onto another grid. Give the grid to a class member and challenge her or him to reconstruct your model.

Front View	Right View	Top View	Base Design
			

NCTM Illuminations Isometric Drawing Tool

<https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Isometric-Drawing-Tool/>

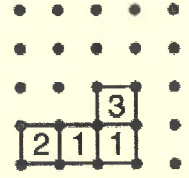
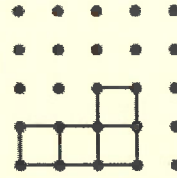
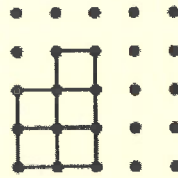
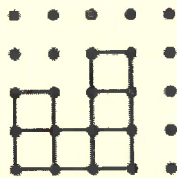


姓名: 梁詠俞 (20) 班別: 5A 日期: 17-3-2023

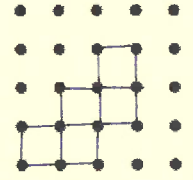
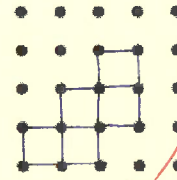
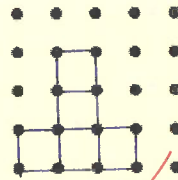
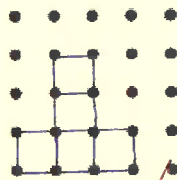
Problem Solving with Cubes

Questions 1-5: Build each of the cube models shown below and sketch the three views and the base design for each model in the grids supplied. Assume that no “hidden” cubes exist in the models other than those used to support visible cubes. The first one is done for you as an example.

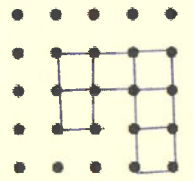
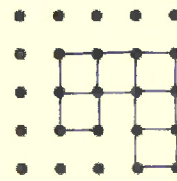
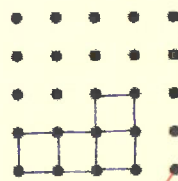
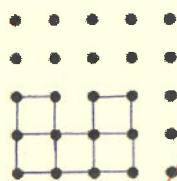
1. Cube Model Front View Right View Top View Base Design



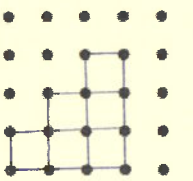
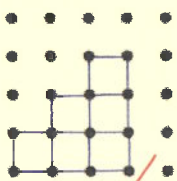
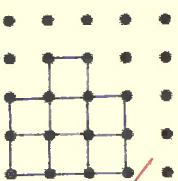
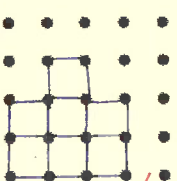
2. Cube Model Front View Right View Top View Base Design



3. Cube Model Front View Right View Top View Base Design



4. Cube Model Front View Right View Top View Base Design



5. **Cube Model** **Front View** **Right View** **Top View** **Base Design**

Front View: A 4x5 grid with a 3x3 square of dots in the bottom-left, and a 2x2 square of dots in the top-right.

Right View: A 4x5 grid with a 3x3 square of dots in the bottom-left, and a 2x2 square of dots in the top-right.

Top View: A 4x5 grid with a 3x3 square of dots in the bottom-left, and a 2x2 square of dots in the top-right.

Base Design: A 4x5 grid with a 3x3 square of dots in the bottom-left, and a 2x2 square of dots in the top-right.

6. Use eight cubes to construct a cube model of the following design. Draw the base design on the grids below. Give the front, right, and top views to a class member and challenge her or him to reconstruct your model.

Good!

Front View **Right View** **Top View** **Base Design**

7. Use seven or eight cubes to build a model that has the top view shown below. Once completed, draw the front view, right view, and base design of your cube model on the remaining grids. Copy the front view onto another grid. Give the grid to a class member and challenge her or him to reconstruct your model.

Front View **Right View** **Top View** **Base Design**

NCTM Illuminations Isometric Drawing Tool

<https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Isometric-Drawing-Tool/>

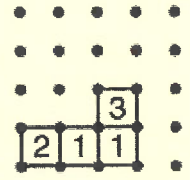
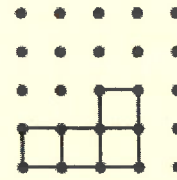
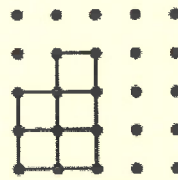
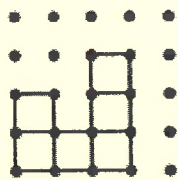
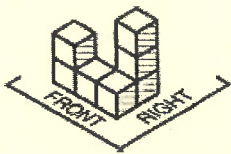


姓名: Yim Ka Lok (32) 班別: 5A 日期: 11-3-2023

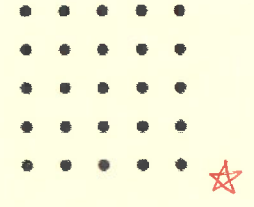
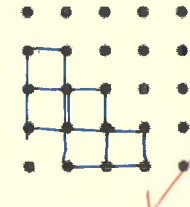
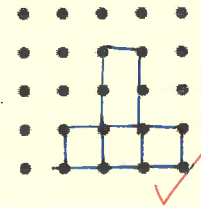
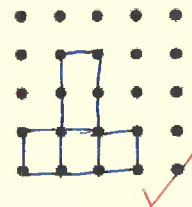
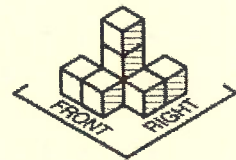
Problem Solving with Cubes

Questions 1-5: Build each of the cube models shown below and sketch the three views and the base design for each model in the grids supplied. Assume that no “hidden” cubes exist in the models other than those used to support visible cubes. The first one is done for you as an example.

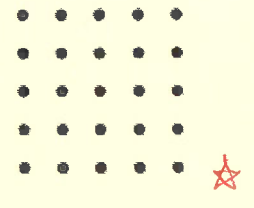
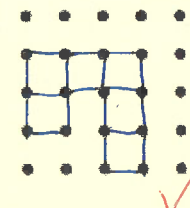
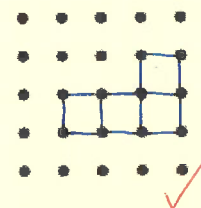
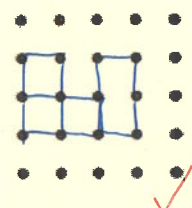
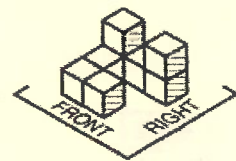
1. Cube Model Front View Right View Top View Base Design



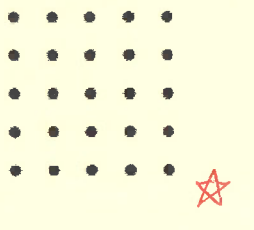
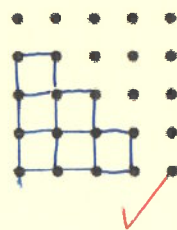
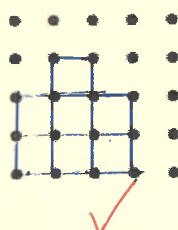
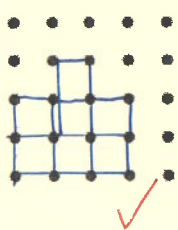
2. Cube Model Front View Right View Top View Base Design



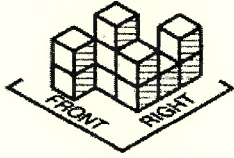
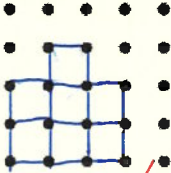
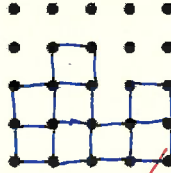
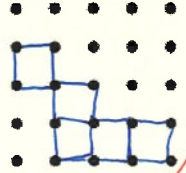
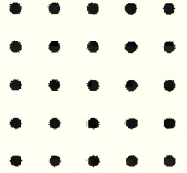
3. Cube Model Front View Right View Top View Base Design



4. Cube Model Front View Right View Top View Base Design



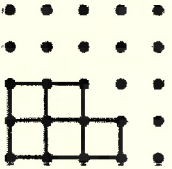
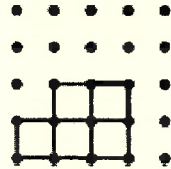
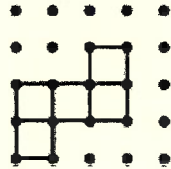
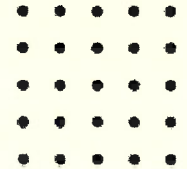
5. **Cube Model** **Front View** **Right View** **Top View** **Base Design**

6. Use eight cubes to construct a cube model of the following design. Draw the base design on the grids below. Give the front, right, and top views to a class member and challenge her or him to reconstruct your model.

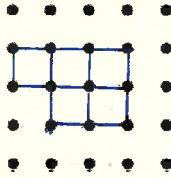
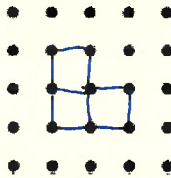
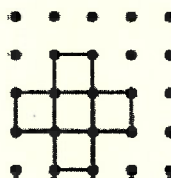
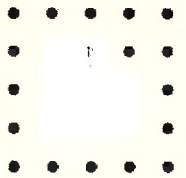
Good!

Front View **Right View** **Top View** **Base Design**

7. Use seven or eight cubes to build a model that has the top view shown below. Once completed, draw the front view, right view, and base design of your cube model on the remaining grids. Copy the front view onto another grid. Give the grid to a class member and challenge her or him to reconstruct your model.

Front View **Right View** **Top View** **Base Design**

NCTM Illuminations Isometric Drawing Tool

<https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Isometric-Drawing-Tool/>

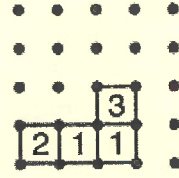
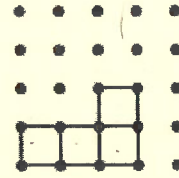
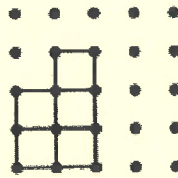
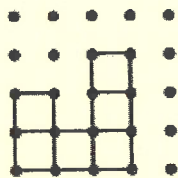


姓名: Michele (H) 班別: 5A 日期: 11-3-2023

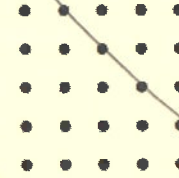
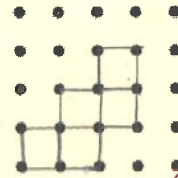
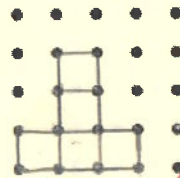
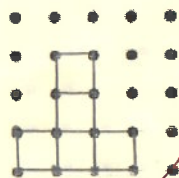
Problem Solving with Cubes

Questions 1-5: Build each of the cube models shown below and sketch the three views and the base design for each model in the grids supplied. Assume that no “hidden” cubes exist in the models other than those used to support visible cubes. The first one is done for you as an example.

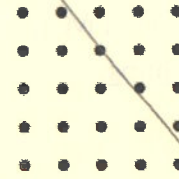
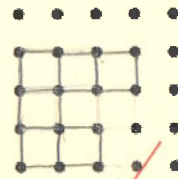
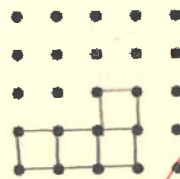
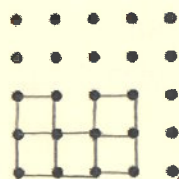
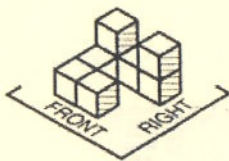
1. Cube Model Front View Right View Top View Base Design



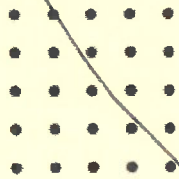
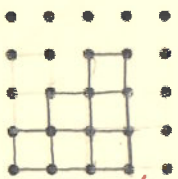
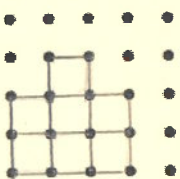
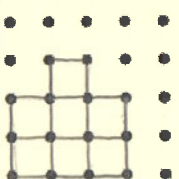
2. Cube Model Front View Right View Top View Base Design



3. Cube Model Front View Right View Top View Base Design



4. Cube Model Front View Right View Top View Base Design



5. **Cube Model** **Front View** **Right View** **Top View** **Base Design**

Front View: A 5x5 grid with a 3x3 square in the bottom-left corner.

Right View: A 5x5 grid with a 3x3 square in the bottom-left corner and a 2x1 rectangle in the top-right corner.

Top View: A 5x5 grid with a 3x3 square in the bottom-left corner and a 2x1 rectangle in the top-right corner.

Base Design: A 5x5 grid with a 3x3 square in the bottom-left corner. This grid is crossed out with a diagonal line.

6. Use eight cubes to construct a cube model of the following design. Draw the base design on the grids below. Give the front, right, and top views to a class member and challenge her or him to reconstruct your model.

Good!

Front View **Right View** **Top View** **Base Design**

Front View: A 5x5 grid with a 3x3 square in the bottom-left corner.

Right View: A 5x5 grid with a 3x3 square in the bottom-left corner and a 2x1 rectangle in the top-right corner.

Top View: A 5x5 grid with a 3x3 square in the bottom-left corner and a 2x1 rectangle in the top-right corner.

Base Design: A 5x5 grid with a 3x3 square in the bottom-left corner. This grid is crossed out with a diagonal line.

7. Use seven or eight cubes to build a model that has the top view shown below. Once completed, draw the front view, right view, and base design of your cube model on the remaining grids. Copy the front view onto another grid. Give the grid to a class member and challenge her or him to reconstruct your model.

Front View **Right View** **Top View** **Base Design**

Front View: A 5x5 grid with a 3x3 square in the bottom-left corner.

Right View: A 5x5 grid with a 3x3 square in the bottom-left corner and a 2x1 rectangle in the top-right corner.

Top View: A 5x5 grid with a 3x3 square in the bottom-left corner and a 2x1 rectangle in the top-right corner.

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NCTM Illuminations Isometric Drawing Tool

<https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Isometric-Drawing-Tool/>

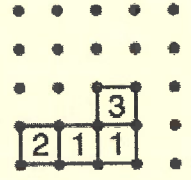
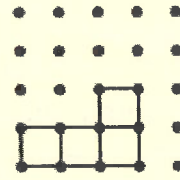
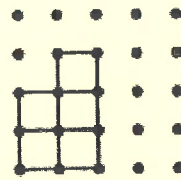
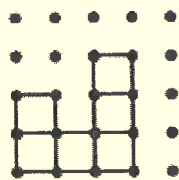


姓名: Jonathan (4) 班別: 5A 日期: 17-3-23

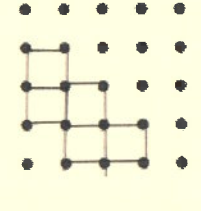
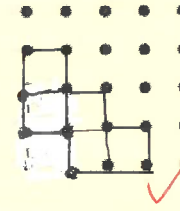
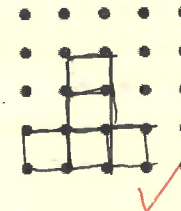
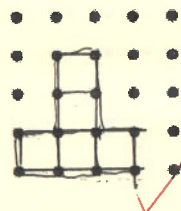
Problem Solving with Cubes

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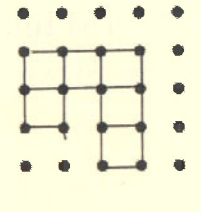
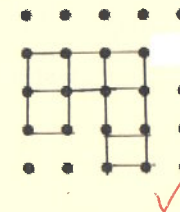
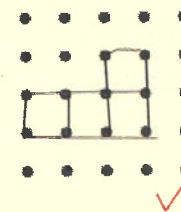
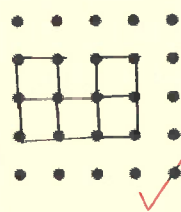
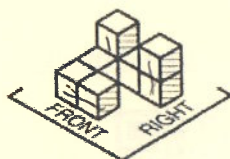
1. Cube Model Front View Right View Top View Base Design



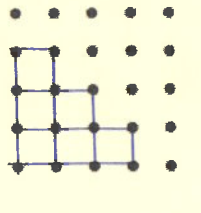
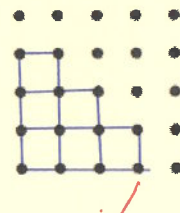
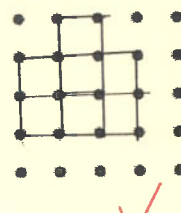
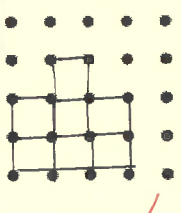
2. Cube Model Front View Right View Top View Base Design



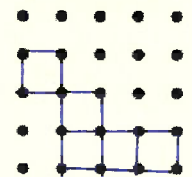
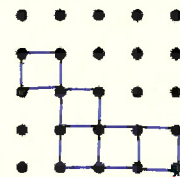
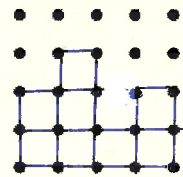
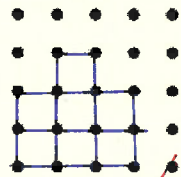
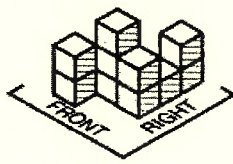
3. Cube Model Front View Right View Top View Base Design



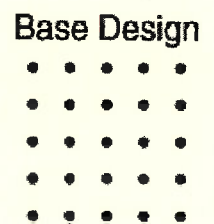
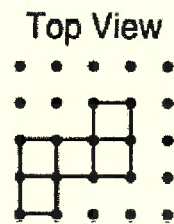
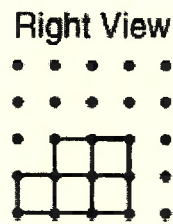
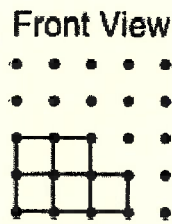
4. Cube Model Front View Right View Top View Base Design



5. **Cube Model** **Front View** **Right View** **Top View** **Base Design**

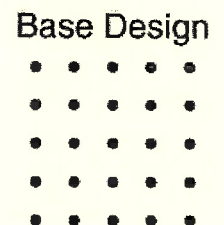
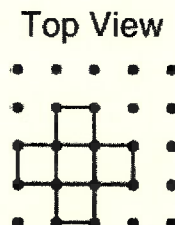
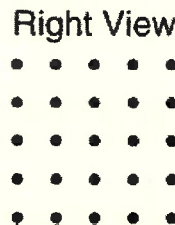
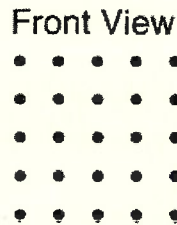


6. Use eight cubes to construct a cube model of the following design. Draw the base design on the grids below. Give the front, right, and top views to a class member and challenge her or him to reconstruct your model.



GOOD!

7. Use seven or eight cubes to build a model that has the top view shown below. Once completed, draw the front view, right view, and base design of your cube model on the remaining grids. Copy the front view onto another grid. Give the grid to a class member and challenge her or him to reconstruct your model.



NCTM Illuminations Isometric Drawing Tool

<https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Isometric-Drawing-Tool/>

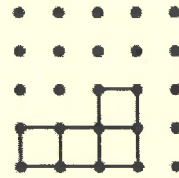
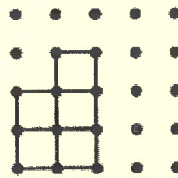
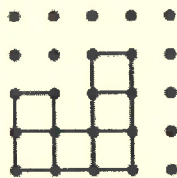


姓名: Chong Tsz Ching, Sophia (9) 班別: 5A 日期: 17-3-2023

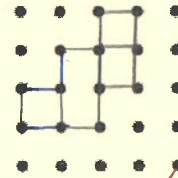
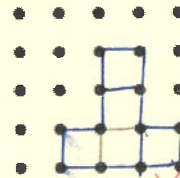
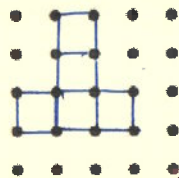
Problem Solving with Cubes

Questions 1-5: Build each of the cube models shown below and sketch the three views and the base design for each model in the grids supplied. Assume that no "hidden" cubes exist in the models other than those used to support visible cubes. The first one is done for you as an example.

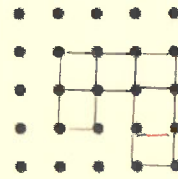
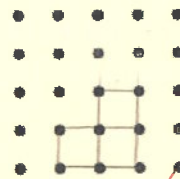
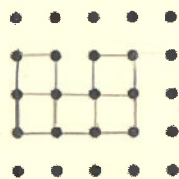
1. Cube Model Front View Right View Top View Base Design



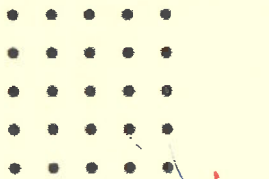
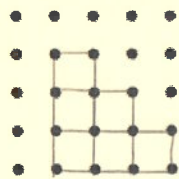
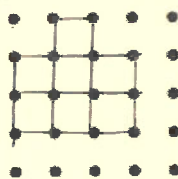
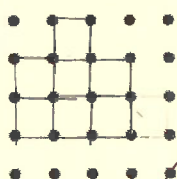
2. Cube Model Front View Right View Top View Base Design



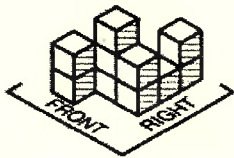
3. Cube Model Front View Right View Top View Base Design

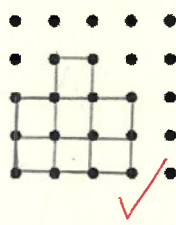
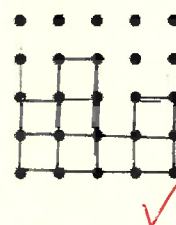
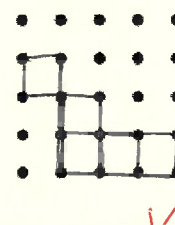
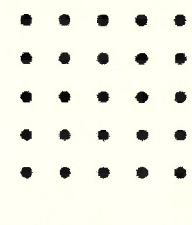


4. Cube Model Front View Right View Top View Base Design



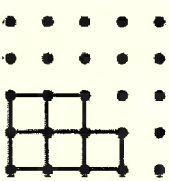
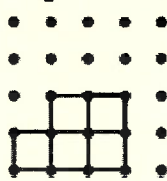
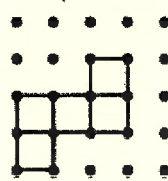
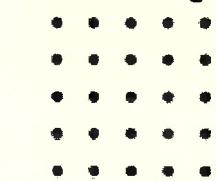
5. **Cube Model**



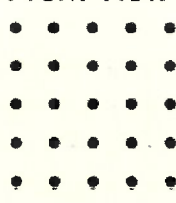
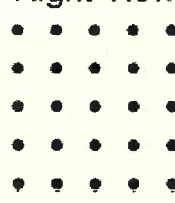
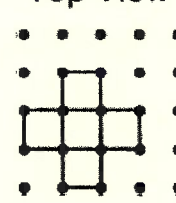
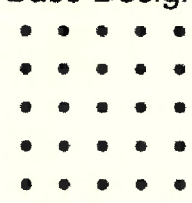
Front View	Right View	Top View	Base Design
			

6. Use eight cubes to construct a cube model of the following design. Draw the base design on the grids below. Give the front, right, and top views to a class member and challenge her or him to reconstruct your model.

Good!

Front View	Right View	Top View	Base Design
			

7. Use seven or eight cubes to build a model that has the top view shown below. Once completed, draw the front view, right view, and base design of your cube model on the remaining grids. Copy the front view onto another grid. Give the grid to a class member and challenge her or him to reconstruct your model.

Front View	Right View	Top View	Base Design
			

NCTM Illuminations Isometric Drawing Tool
<https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Isometric-Drawing-Tool/>

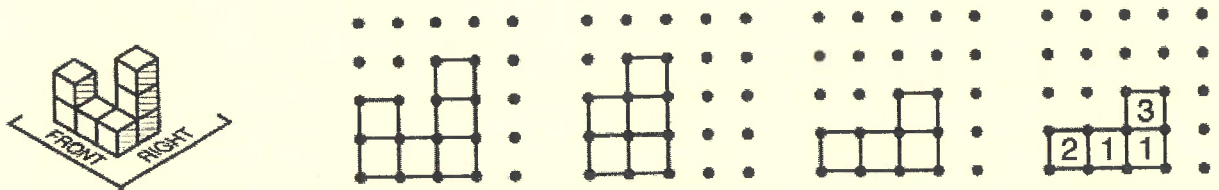


姓名: Chan Chun Ho (Cospar) (2) 班別: 5A 日期: 17-3-2023

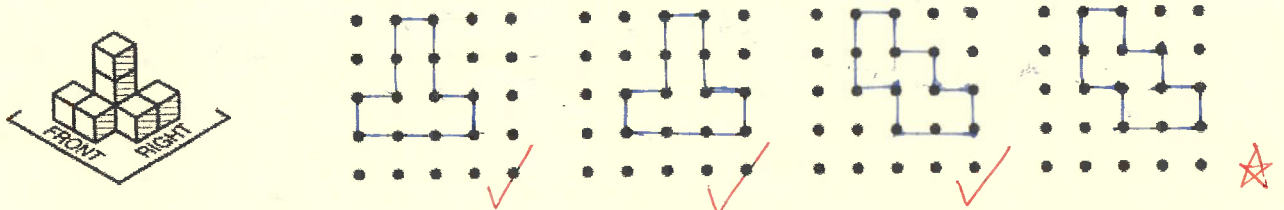
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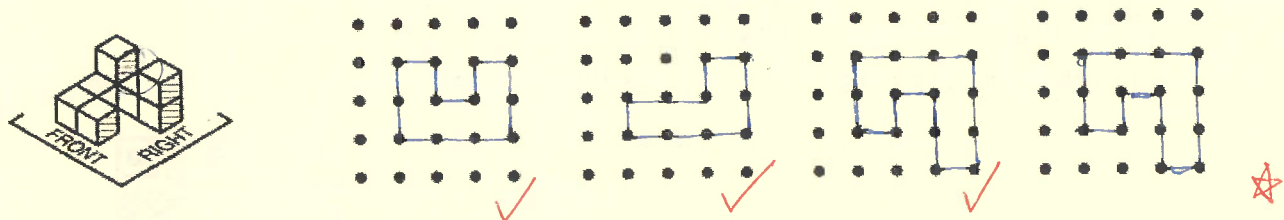
1. Cube Model Front View Right View Top View Base Design



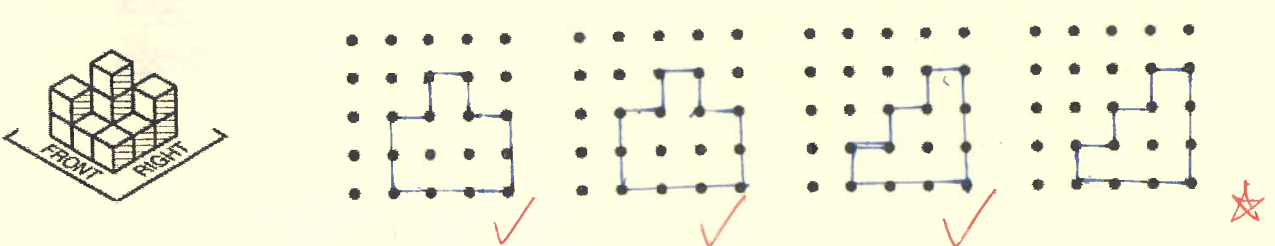
2. Cube Model Front View Right View Top View Base Design



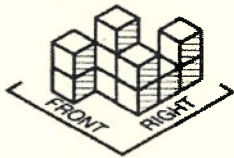
3. Cube Model Front View Right View Top View Base Design

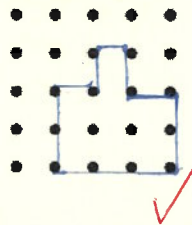
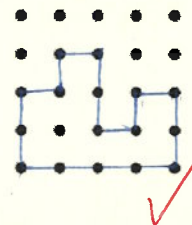
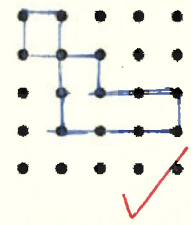
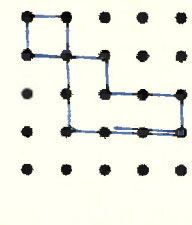


4. Cube Model Front View Right View Top View Base Design



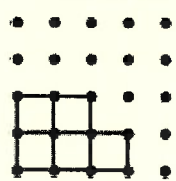
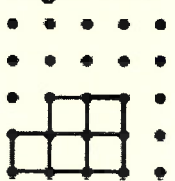
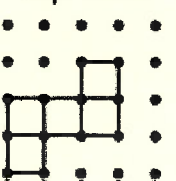
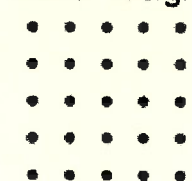
5. **Cube Model**



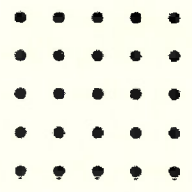
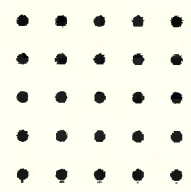
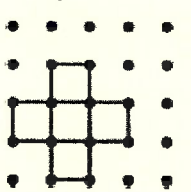
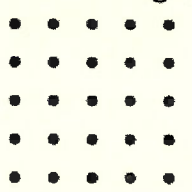
Front View	Right View	Top View	Base Design
			

6. Use eight cubes to construct a cube model of the following design. Draw the base design on the grids below. Give the front, right, and top views to a class member and challenge her or him to reconstruct your model.

Good!

Front View	Right View	Top View	Base Design
			

7. Use seven or eight cubes to build a model that has the top view shown below. Once completed, draw the front view, right view, and base design of your cube model on the remaining grids. Copy the front view onto another grid. Give the grid to a class member and challenge her or him to reconstruct your model.

Front View	Right View	Top View	Base Design
			

NCTM Illuminations Isometric Drawing Tool

<https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Isometric-Drawing-Tool/>

