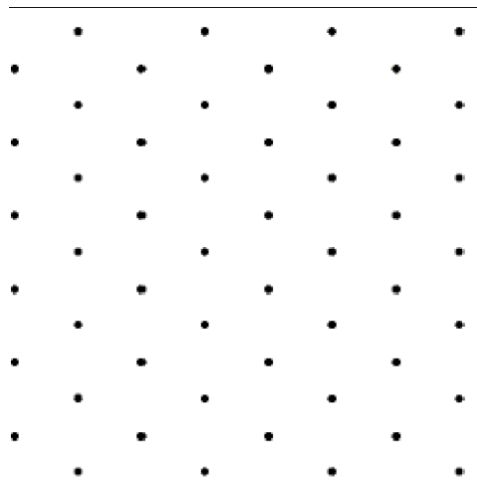
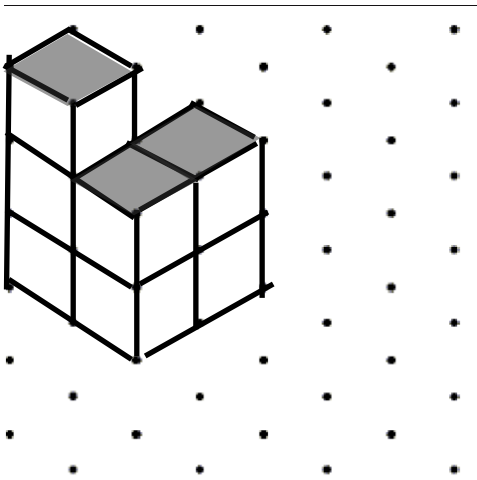


NAME \_\_\_\_\_ DATE \_\_\_\_\_ PER. \_\_\_\_\_

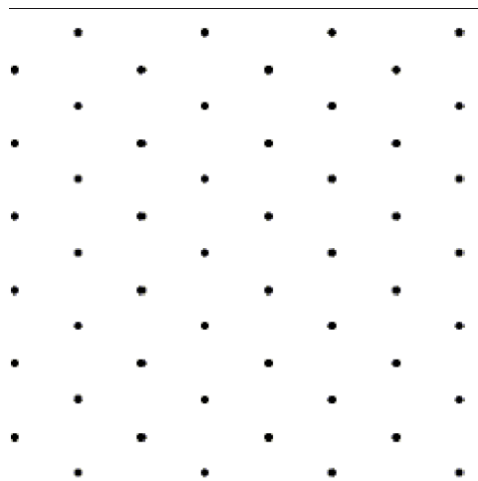
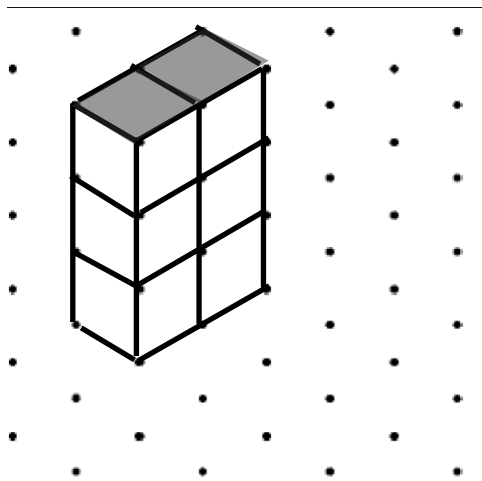
### VIEWS OF 3-D OBJECTS

Copy each of the following isometric drawings.

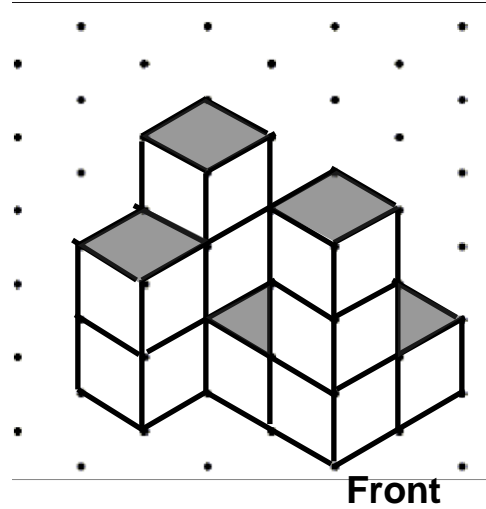
1.



2.

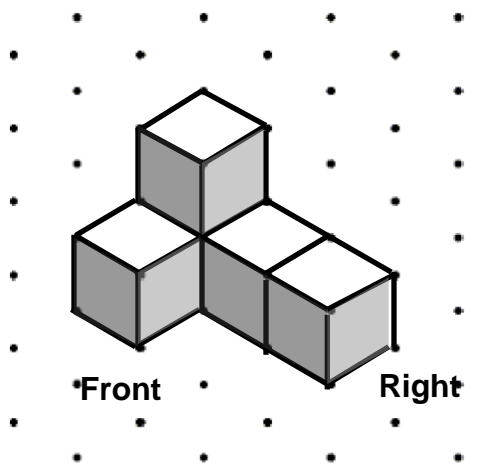


An isometric drawing is shown below, along with three orthogonal views. Write *front*, *top*, or *side* in the blank provided to tell which perspective was used to create each orthogonal drawing.



<p>3.</p>	<p>4.</p>	<p>5.</p>
<hr/>	<hr/>	<hr/>

Given the isometric drawing below, draw the indicated orthogonal views.

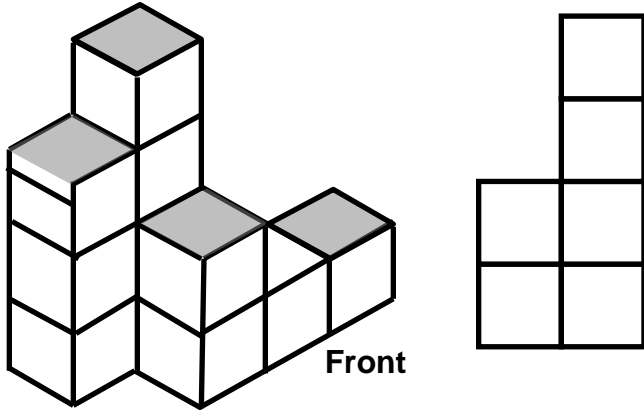


10. Foundation View:

<p>6. RIGHT SIDE VIEW:</p>	<p>7. FRONT VIEW:</p>
<p>8. TOP VIEW:</p>	<p>9. LEFT SIDE VIEW:</p>

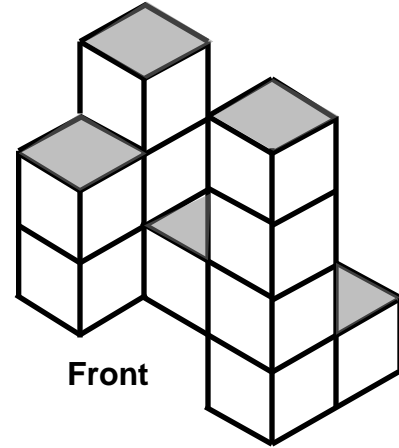
Find the correct answer for each of the following. Clearly circle your answer.

11. Shown below are an isometric drawing and an orthogonal view of a three-dimensional figure. Which orthogonal view is shown?



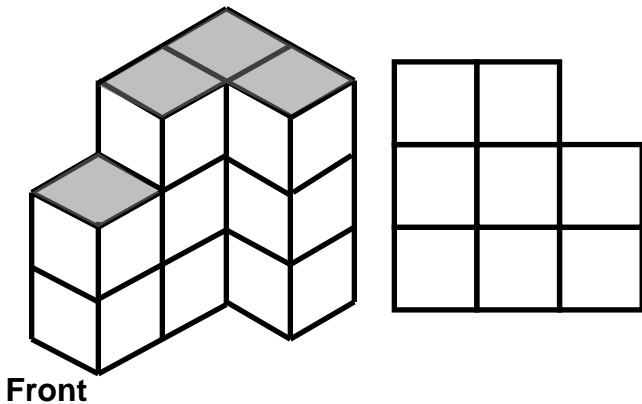
- A. Front view
- B. Top view
- C. Left-side view
- D. Right-side view

12. How many squares would be shown in the right-side orthogonal view of the following figure?



- A. 6
- B. 7
- C. 9
- D. 10

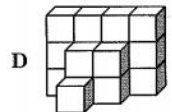
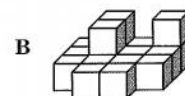
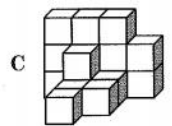
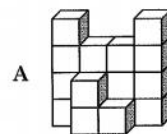
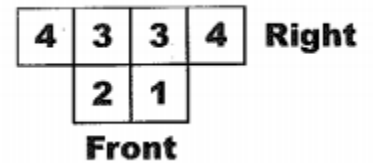
13. Shown below are an isometric view and an orthogonal view of a three-dimensional figure.



What orthogonal view is shown?

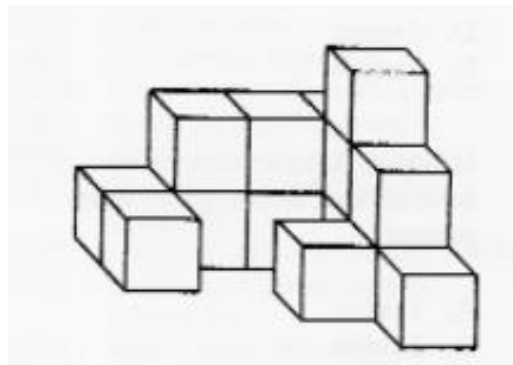
- A. Front view
- B. Top view
- C. Left-side view
- D. Right-side view

14. Which 3-dimensional view is represented by the foundation view below.



The figure below has been made by cementing together cubes of the same size. After being cemented the figure was painted on all sides EXCEPT FOR THE BOTTOM ON WHICH IT IS RESTING. The only hidden cubes are those required to support other cubes. For the following questions examine the figure and determine how many cubes have:

- Only one of their sides painted
- Only two of their sides painted
- Only three of their sides painted
- Only four of their sides painted
- All five of their sides painted



\_\_\_\_\_ 15. How many cubes have two of their exposed sides painted?

- A. 1 cube    B. 2 cubes    C. 3 cubes  
D. 4 cubes    E. 5 cubes

\_\_\_\_\_ 16. How many cubes have three of their exposed sides painted?

- A. 1 cube    B. 2 cubes    C. 3 cubes  
D. 4 cubes    E. 5 cubes

\_\_\_\_\_ 17. How many cubes have four of their exposed sides painted?

- A. 1 cube    B. 2 cubes    C. 3 cubes  
D. 4 cubes    E. 5 cubes

18. If the edge of each cube, is 2 inches, what is the volume of the figure above?