

# THREE-DIMENSIONAL SHAPES

## A THREE-DIMENSIONAL SHAPES

### A.1 IDENTIFYING FLAT OR SOLID SHAPES

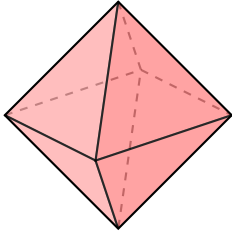
**MCQ 1:** Is this shape flat or solid?



Pick the right answer:

- ☐ 2D shape
- ☐ 3D shape

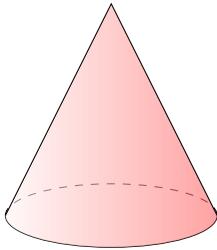
**MCQ 2:** Is this shape flat or solid?



Pick the right answer:

- ☐ 2D shape
- ☐ 3D shape

**MCQ 3:** Is this shape flat or solid?



Pick the right answer:

- ☐ 2D shape
- ☐ 3D shape

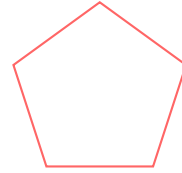
**MCQ 4:** Is this shape flat or solid?



Pick the right answer:

- ☐ 2D shape
- ☐ 3D shape

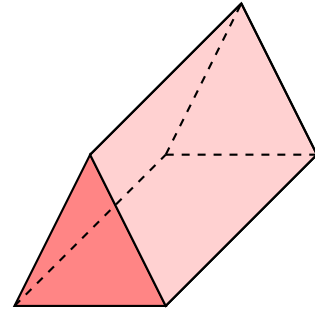
**MCQ 5:** Is this shape flat or solid?



Pick the right answer:

- ☐ 2D shape
- ☐ 3D shape

**MCQ 6:** Is this shape flat or solid?

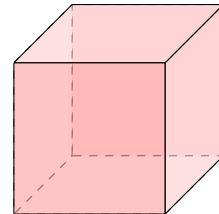


Pick the right answer:

- ☐ 2D shape
- ☐ 3D shape

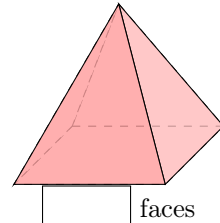
### A.2 COUNTING FACES

**Ex 7:** How many faces does this cube have?



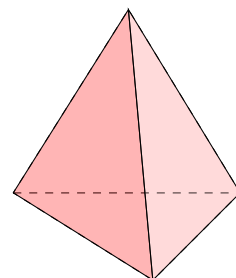
faces

**Ex 8:** How many faces does this square Pyramid have?



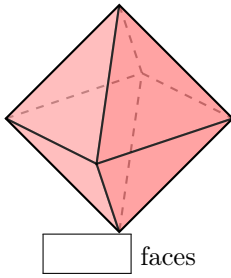
faces

**Ex 9:** How many faces does this triangular pyramid have?



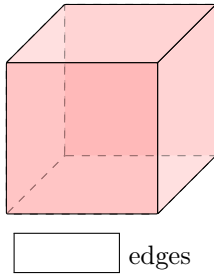
faces

**Ex 10:** How many faces does this eight-faced die have?

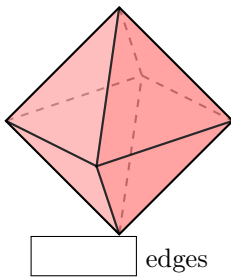


### A.3 COUNTING EDGES

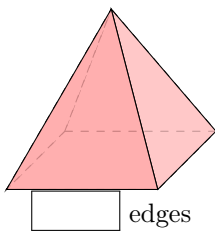
**Ex 11:** How many edges does this cube have?



**Ex 12:** How many edges does this eight-faced die have?

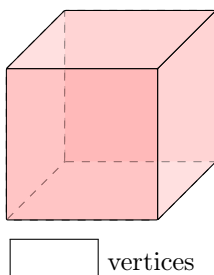


**Ex 13:** How many edges does this square Pyramid have?

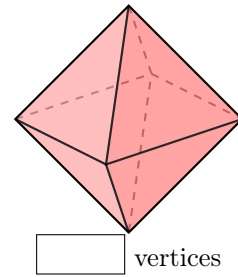


### A.4 COUNTING VERTICES

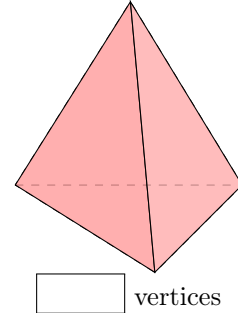
**Ex 14:** How many vertices does this cube have?



**Ex 15:** How many vertices does this eight-faced die have?



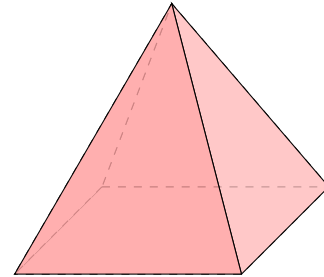
**Ex 16:** How many vertices does this triangular pyramid have?



## B POLYHEDRON

### B.1 IDENTIFYING POLYHEDRONS

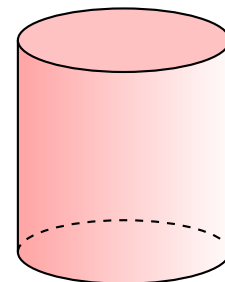
**MCQ 17:** Is this 3D figure a polyhedron?



Choose one answer:

- ☐ True  
☐ False

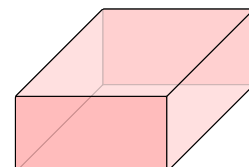
**MCQ 18:** Is this 3D figure a polyhedron?



Choose one answer:

- ☐ True  
☐ False

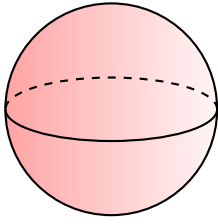
**MCQ 19:** Is this 3D figure a polyhedron?



Choose one answer:

- ☐ True  
☐ False

**MCQ 20:** Is this 3D figure a polyhedron?



Choose one answer:

- ☐ True  
☐ False

## C CROSS SECTIONS

### C.1 IDENTIFYING UNIFORM CROSS SECTION

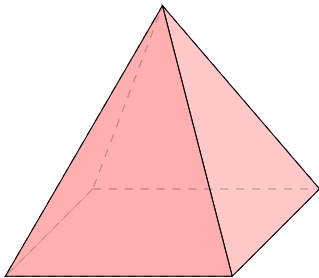
**MCQ 21:** Does this 3D shape have a uniform cross section?



Choose one answer:

- ☐ True  
☐ False

**MCQ 22:** Does this 3D shape have a uniform cross section?

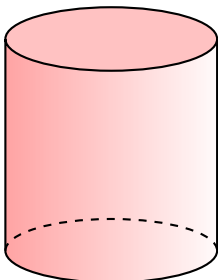


square-based pyramid

Choose one answer:

- ☐ True  
☐ False

**MCQ 23:** Does this 3D shape have a uniform cross section?



Choose one answer:

- ☐ True  
☐ False

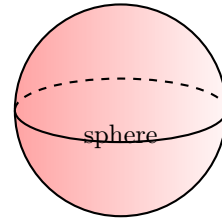
**MCQ 24:** Does this building have a uniform cross section?



Choose one answer:

- ☐ True  
☐ False

**MCQ 25:** Does this 3D shape have a uniform cross section?



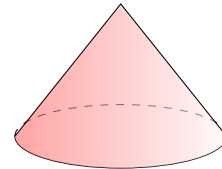
Choose one answer:

- ☐ True  
☐ False

## D CLASSIFICATION

### D.1 CLASSIFYING 3D SHAPES

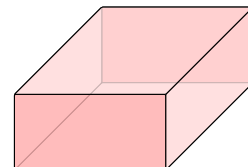
**MCQ 26:** Which 3D shape is shown below?



Choose one answer:

- ☐ Cone  
☐ Cylinder  
☐ Triangular prism

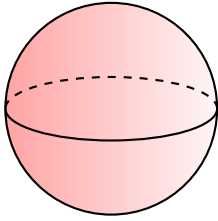
**MCQ 27:** Which 3D shape is shown below?



Choose one answer:

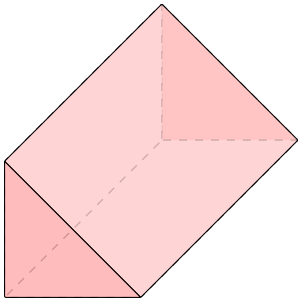
- ☐ Cone
- ☐ Triangular prism
- ☐ Rectangular prism

**MCQ 28:** Which 3D shape is shown below?



The shape above matches this description.

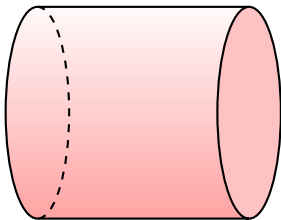
**MCQ 29:** Which 3D shape is shown below?



Choose one answer:

- ☐ Cylinder
- ☐ Triangular prism
- ☐ Rectangular prism

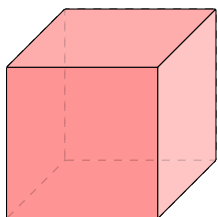
**MCQ 30:** Which 3D shape is shown below?



Choose one answer:

- ☐ Cylinder
- ☐ Cone
- ☐ Sphere

**MCQ 31:** Which 3D shape is shown below?



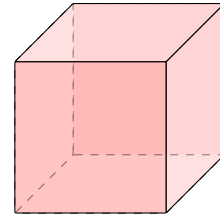
Choose one answer:

- ☐ Rectangular pyramid
- ☐ Square pyramid
- ☐ Cube

## E DRAWING THREE-DIMENSIONAL SHAPES

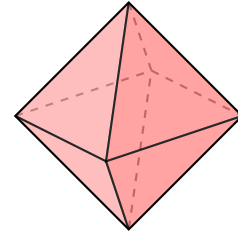
### E.1 COUNTING VISIBLE AND HIDDEN EDGES

**Ex 32:** Count the number of visible and hidden edges on this cube



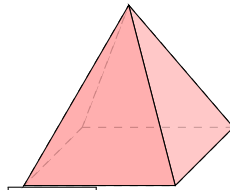
visible edges  
 hidden edges

**Ex 33:** Count the number of visible and hidden edges on this eight-faced die.



visible edges  
 hidden edges

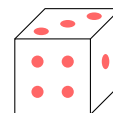
**Ex 34:** Count the number of visible and hidden edges on this square Pyramid.



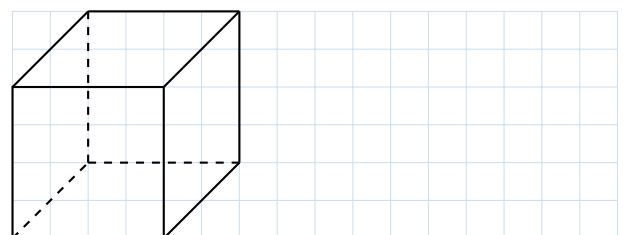
visible edges  
 hidden edges

### E.2 DRAWING THREE-DIMENSIONAL SHAPES

**Ex 35:**



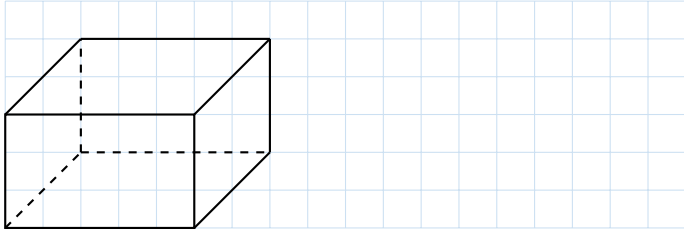
Draw this cube on your graph paper.



**Ex 36:**



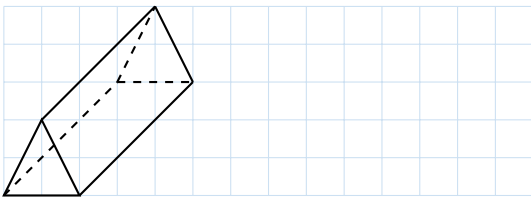
Draw this cube on your graph paper.



Ex 37:



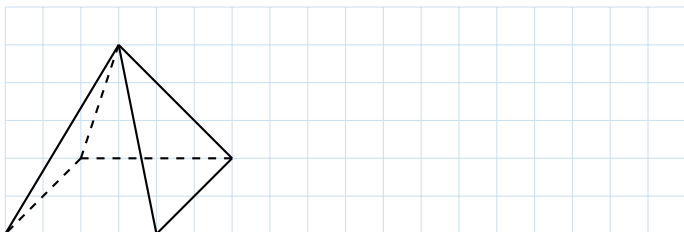
Draw this triangular prism on your graph paper.



Ex 38:



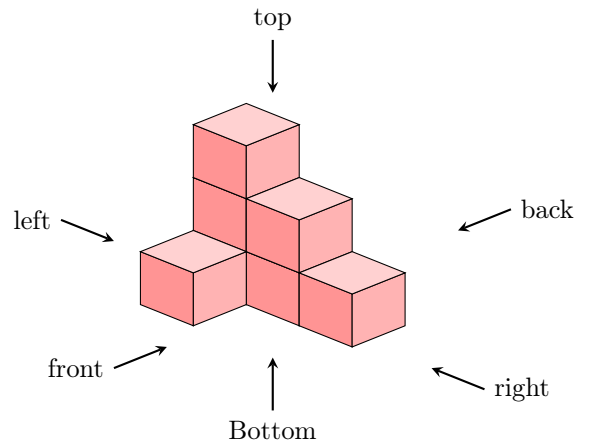
Draw this pyramid on your graph paper.



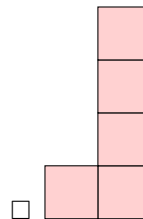
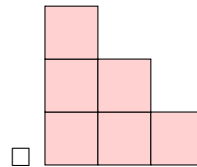
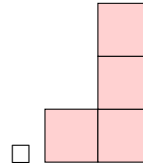
## F MULTI-VIEW PROJECTION

### F.1 FINDING THE PROJECTION

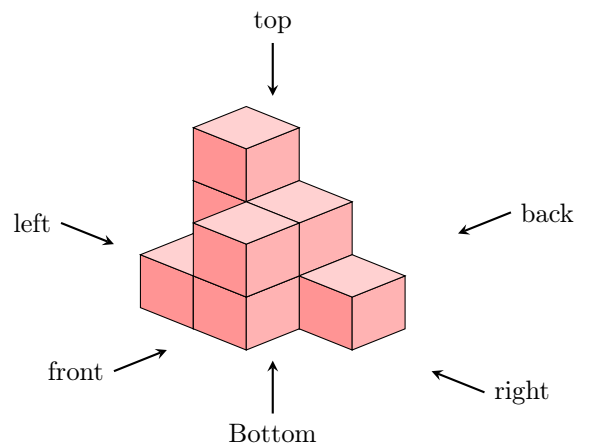
MCQ 39: Identify the front view of this solid.



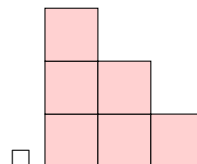
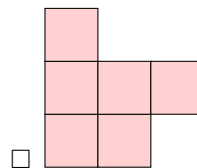
Choose one answer:

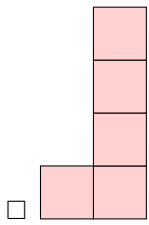


MCQ 40: Identify the top view of this solid.

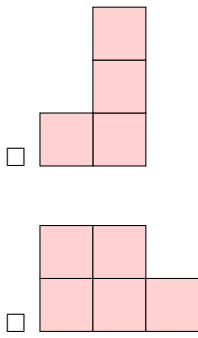


Choose one answer:





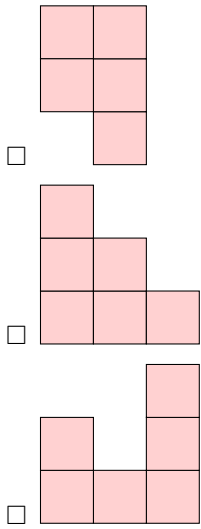
**MCQ 41:** Identify the right view of this solid.



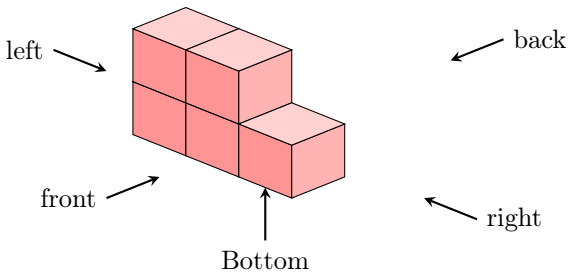
**F.2 DRAWING THE PROJECTION**

**Ex 43:** Draw the front view of this solid on your graph paper.

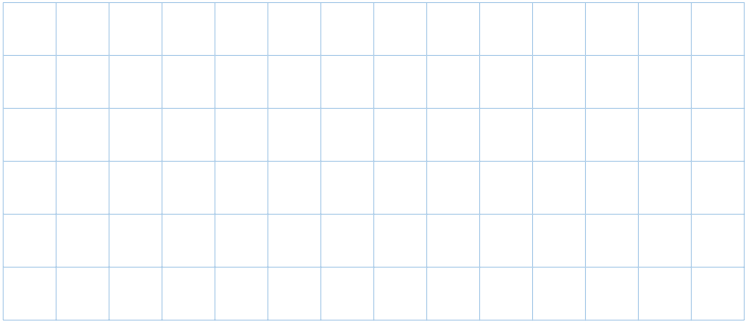
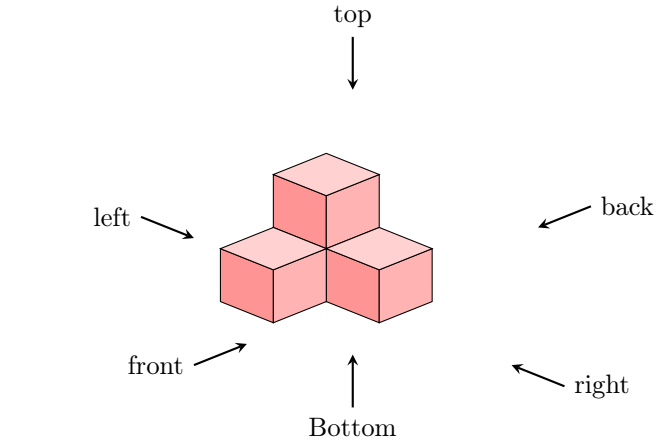
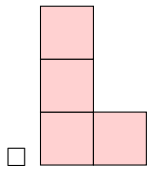
Choose one answer:



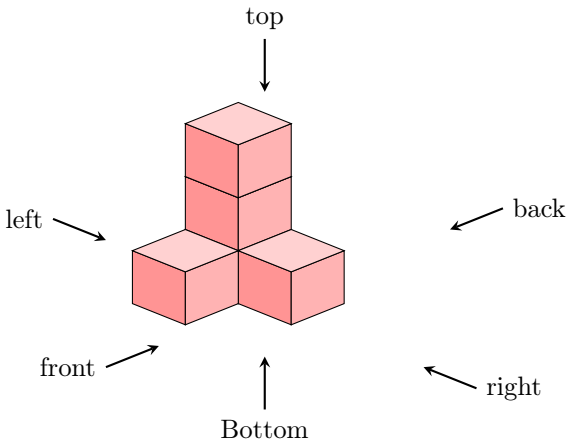
**MCQ 42:** Identify the front view of this solid.



Choose one answer:



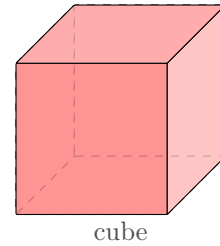
**Ex 44:** Draw the right view of this solid on your graph paper.



## G SOLID CONSTRUCTIONS

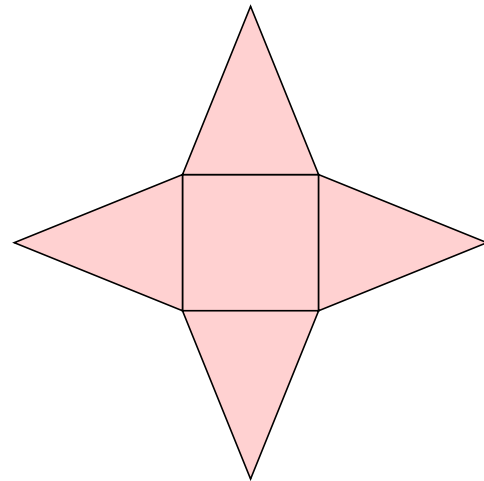
### G.1 IDENTIFYING NETS

**MCQ 47:** Identify the net that can be folded to form this 3D shape.

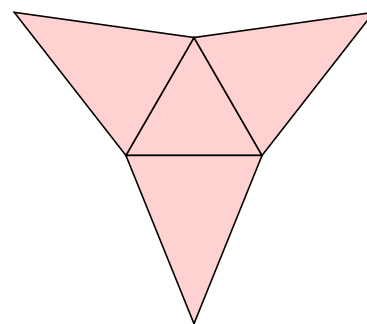


cube

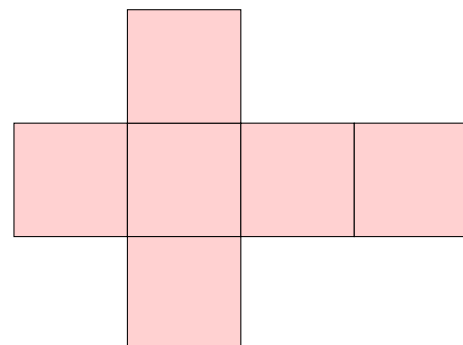
Choose one answer:



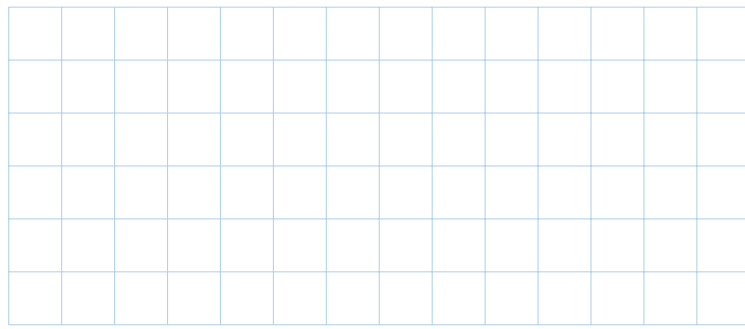
☐



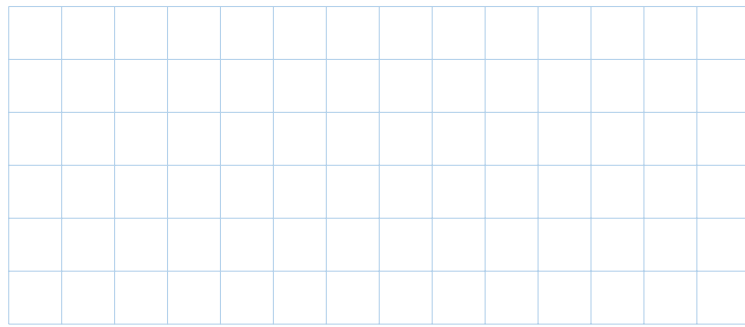
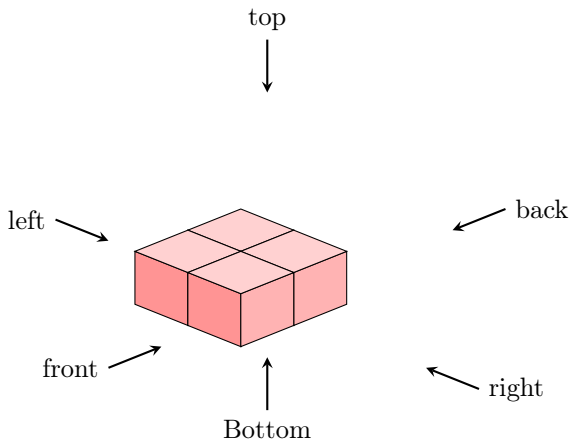
☐



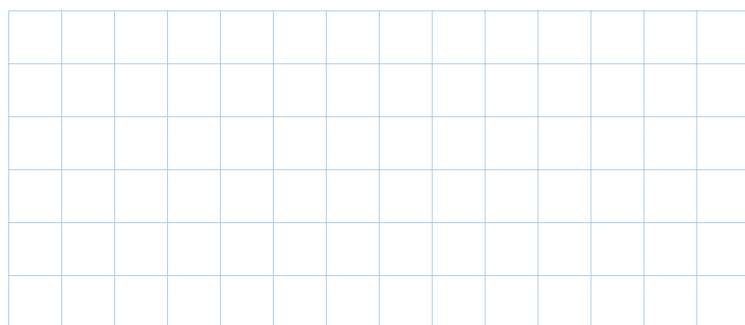
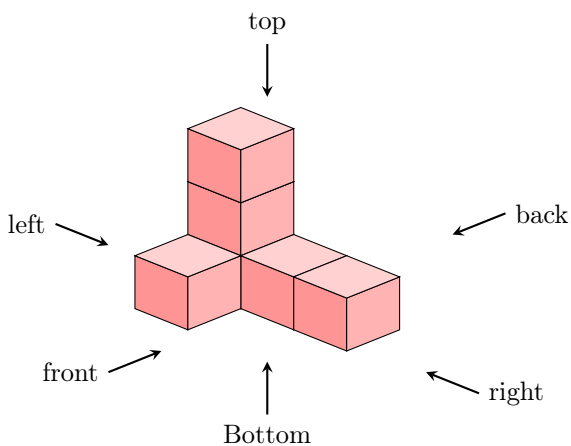
☐

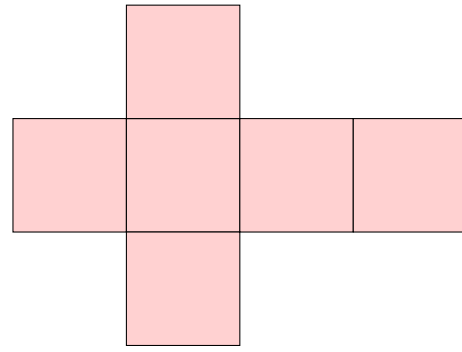
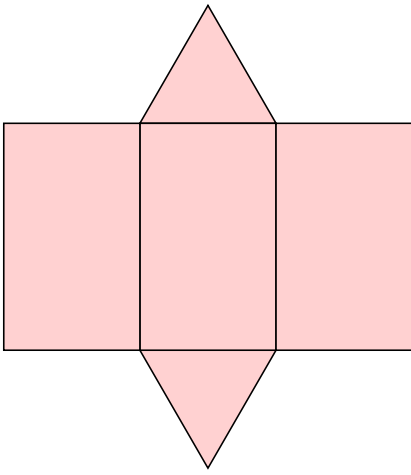


**Ex 45:** Draw the top view of this solid on your graph paper.

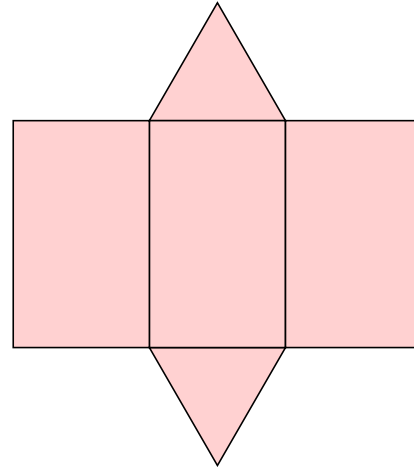
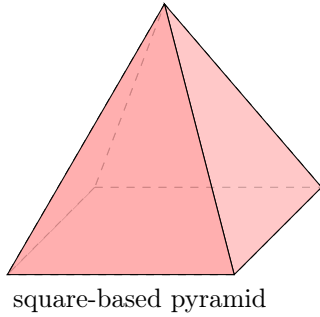


**Ex 46:** Draw the front view of this solid on your graph paper.



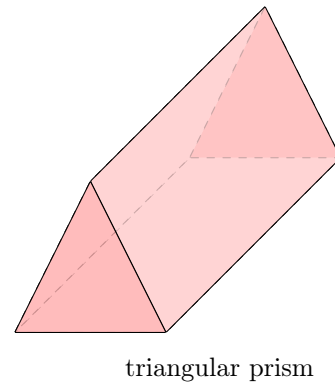
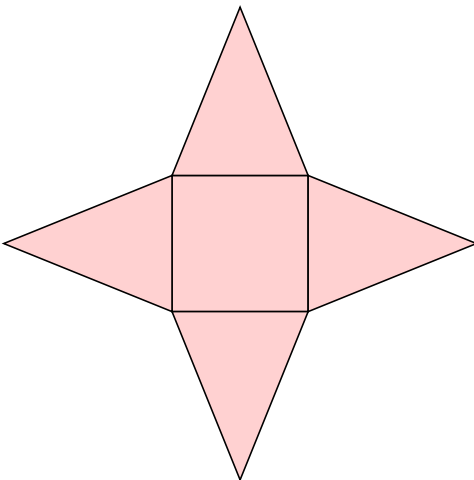


**MCQ 48:** Identify the net that can be folded to form this 3D shape.

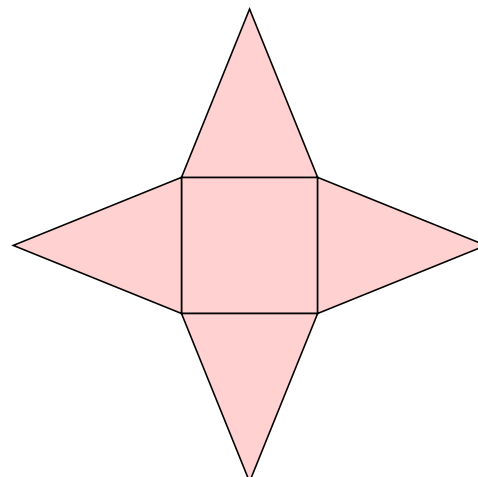
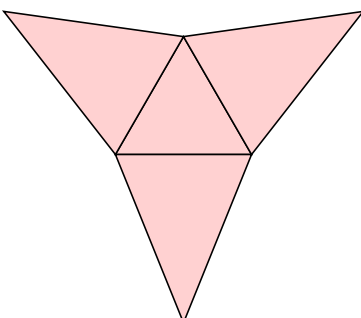


**MCQ 49:** Identify the net that can be folded to form this 3D shape.

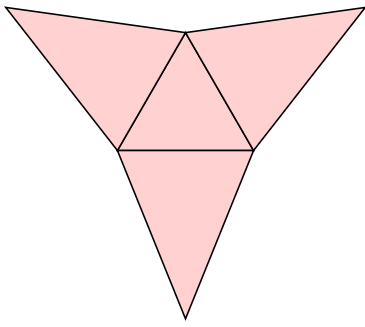
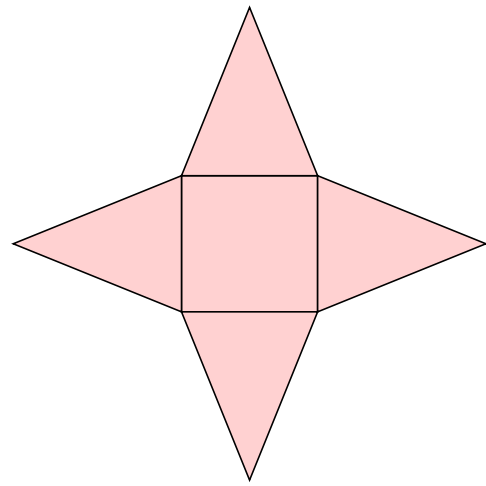
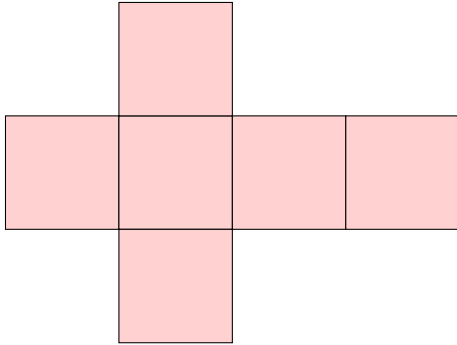
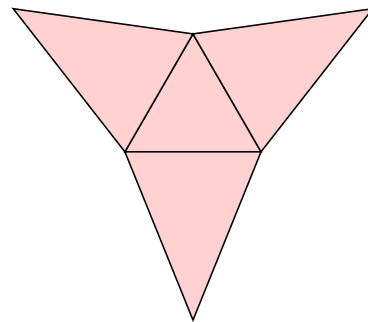
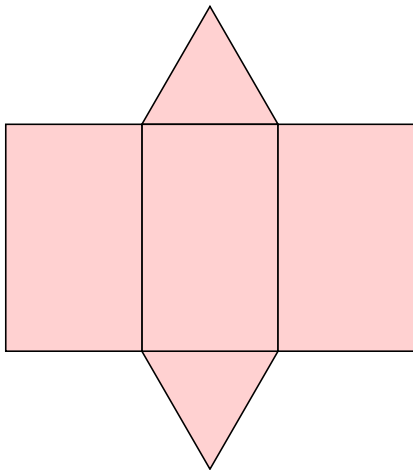
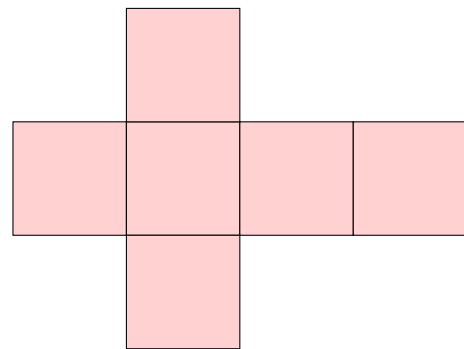
Choose one answer:



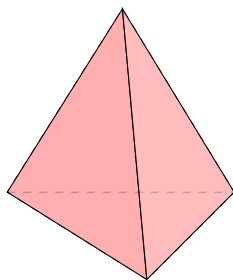
Choose one answer:



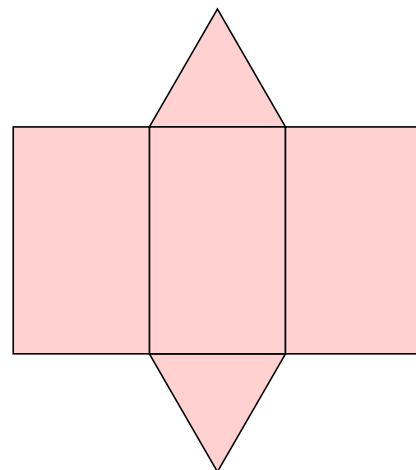


☐☐☐☐☐☐

**MCQ 50:** Identify the net that can be folded to form this 3D shape.



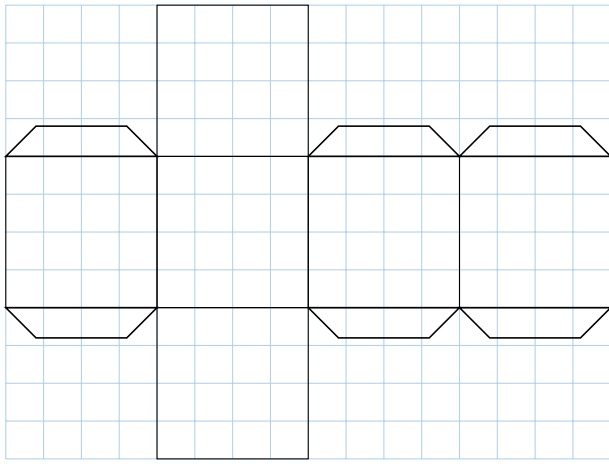
tetrahedron

☐

Choose one answer:

## G.2 CONSTRUCTING 3D SOLIDS FROM PAPER

**Ex 51:** Draw this net on graph paper. Cut it out (keeping the tabs), fold it, and glue the tabs to form a cube. You can decorate its different faces. I look forward to seeing your photographs.



**Ex 52:** Draw this net on graph paper. Cut it out (keeping the tabs), fold it, and glue the tabs to form a square-based pyramid. You can decorate its different faces. I look forward to seeing your photographs.

