

# THREE-DIMENSIONAL SHAPES

## A THREE-DIMENSIONAL SHAPES

### A.1 IDENTIFYING FLAT OR SOLID SHAPES

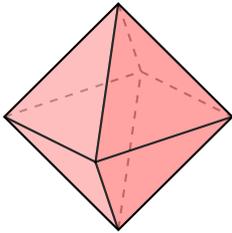
MCQ 1: Is this shape flat or solid?



Pick the right answer:

- 2D shape
- 3D shape

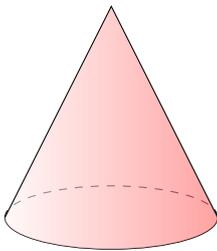
MCQ 2: Is this shape flat or solid?



Pick the right answer:

- 2D shape
- 3D shape

MCQ 3: Is this shape flat or solid?



Pick the right answer:

- 2D shape
- 3D shape

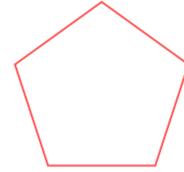
MCQ 4: Is this shape flat or solid?



Pick the right answer:

- 2D shape
- 3D shape

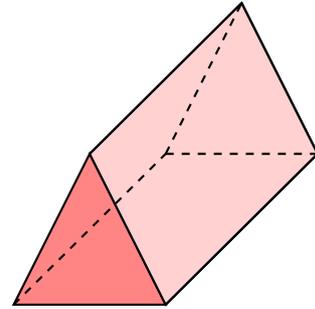
MCQ 5: Is this shape flat or solid?



Pick the right answer:

- 2D shape
- 3D shape

MCQ 6: Is this shape flat or solid?

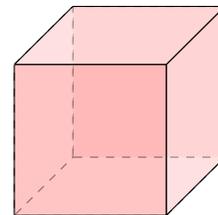


Pick the right answer:

- 2D shape
- 3D shape

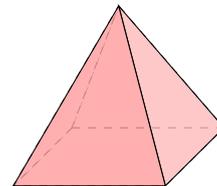
### A.2 COUNTING FACES

Ex 7: How many faces does this cube have?



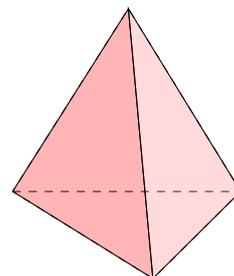
faces

Ex 8: How many faces does this square pyramid have?



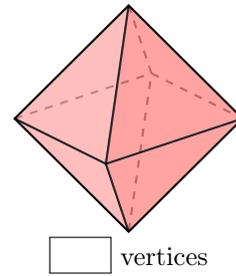
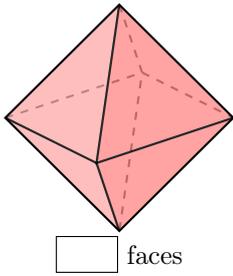
faces

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

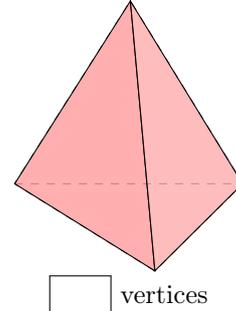


faces

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

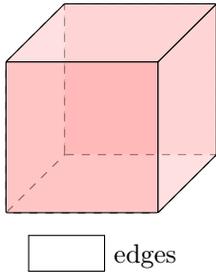


Ex 16: How many vertices does this triangular pyramid have?

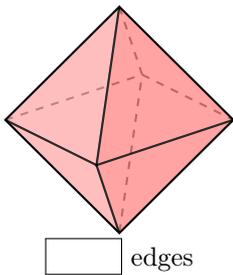


### A.3 COUNTING EDGES

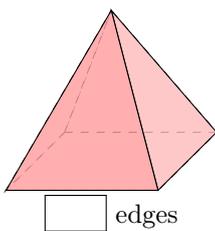
Ex 11: How many edges does this cube have?



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

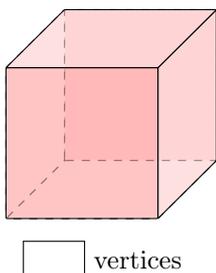


Ex 13: How many edges does this square pyramid have?



### A.4 COUNTING VERTICES

Ex 14: How many vertices does this cube have?

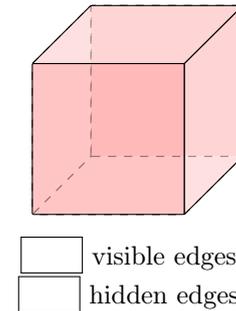


Ex 15: How many vertices does this eight-faced die have?

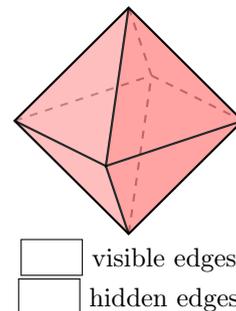
## B DRAWING THREE-DIMENSIONAL SHAPES

### B.1 COUNTING VISIBLE AND HIDDEN EDGES

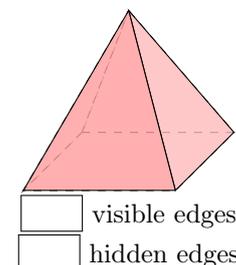
Ex 17: Count the number of visible and hidden edges on this cube



Ex 18: Count the number of visible and hidden edges on this eight-faced die.

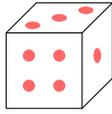


Ex 19: Count the number of visible and hidden edges on this square Pyramid.

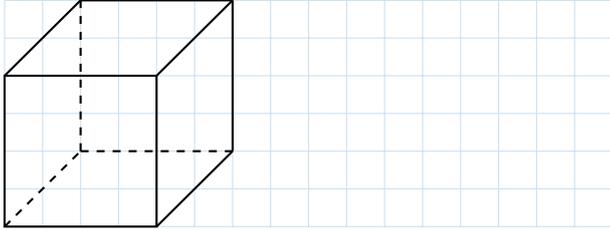


## B.2 DRAWING THREE-DIMENSIONAL SHAPES

Ex 20:



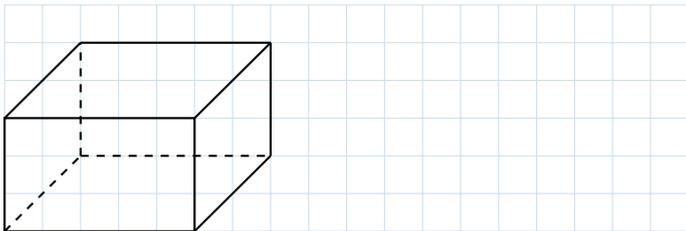
Draw this cube on your graph paper.



Ex 21:



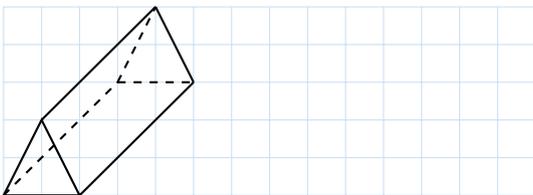
Draw this solid on your graph paper.



Ex 22:



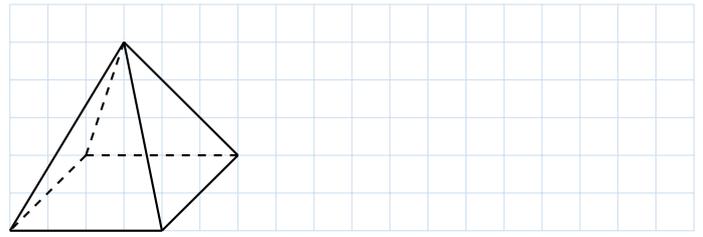
Draw this triangular prism on your graph paper.



Ex 23:



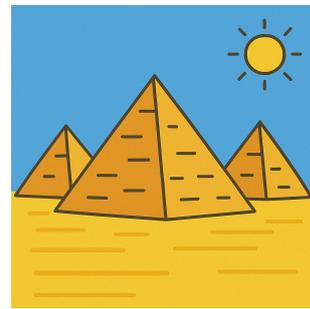
Draw this pyramid on your graph paper.



## C CLASSIFICATION

### C.1 FINDING THE SHAPES

Ex 24: Can you find all the pyramids in the picture?



pyramids

Ex 25: Can you find all the cubes in the picture?



cubes

Ex 26: Can you find all the spheres in the picture?

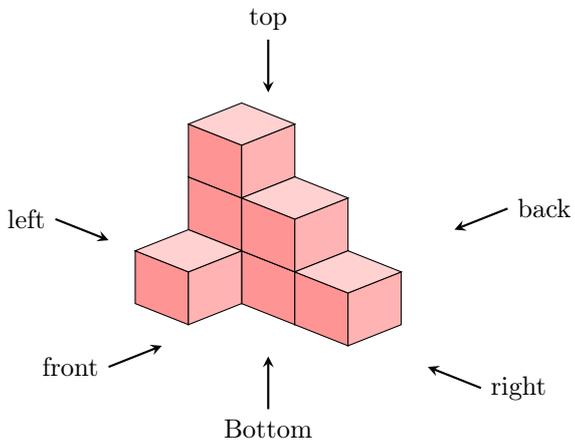


spheres

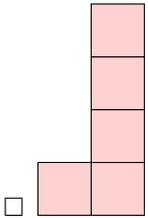
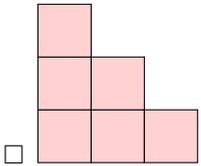
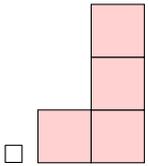
## D MULTI-VIEW PROJECTION

### D.1 FINDING THE PROJECTION

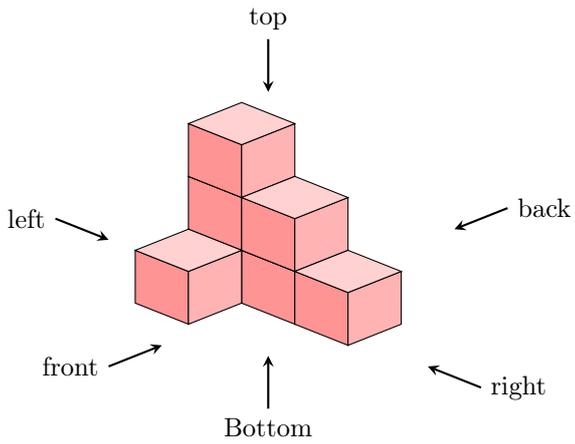
MCQ 27: Identify the front view of this solid.



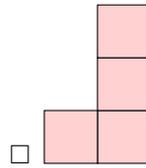
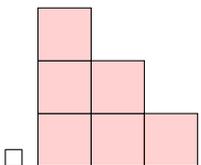
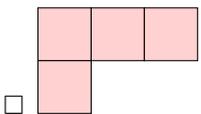
Choose one answer:



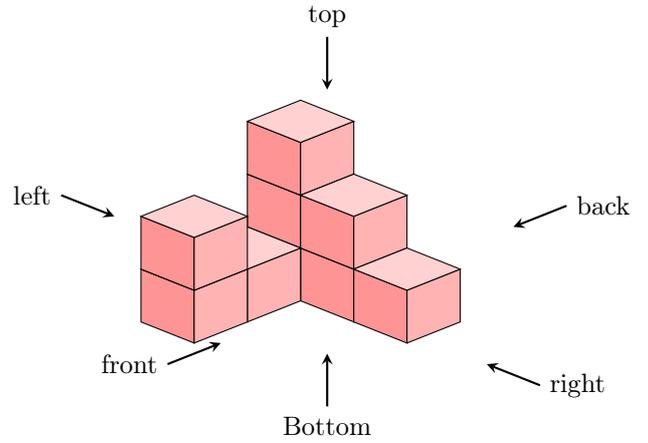
MCQ 28: Identify the top view of this solid.



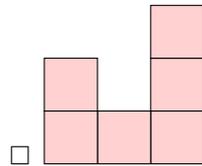
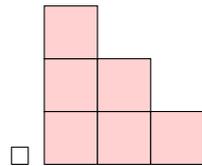
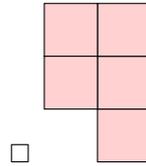
Choose one answer:



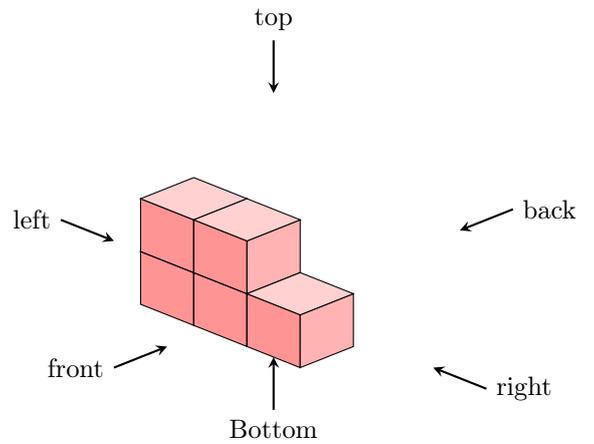
MCQ 29: Identify the right view of this solid.



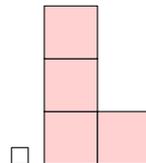
Choose one answer:

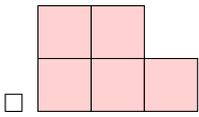
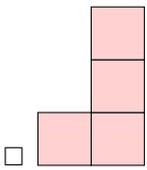


MCQ 30: Identify the front view of this solid.



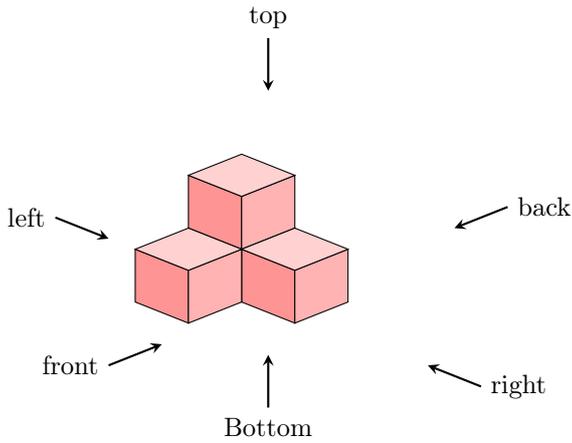
Choose one answer:



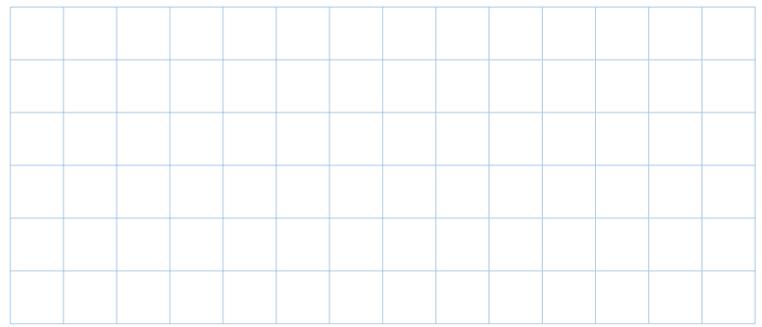
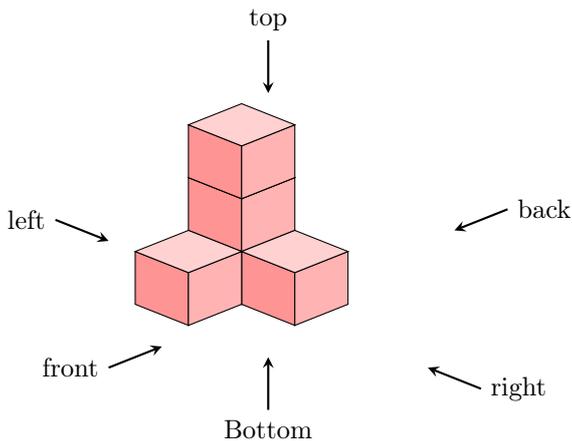


## D.2 DRAWING THE PROJECTION

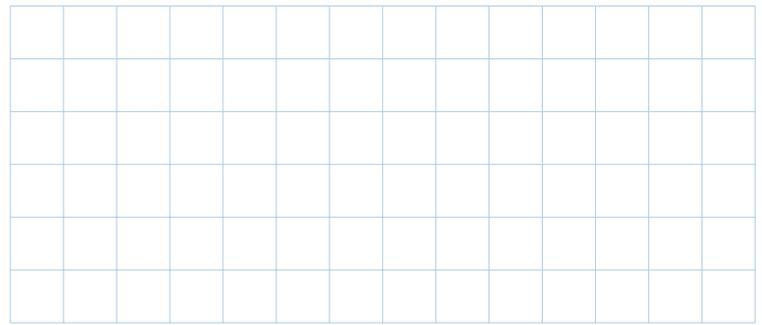
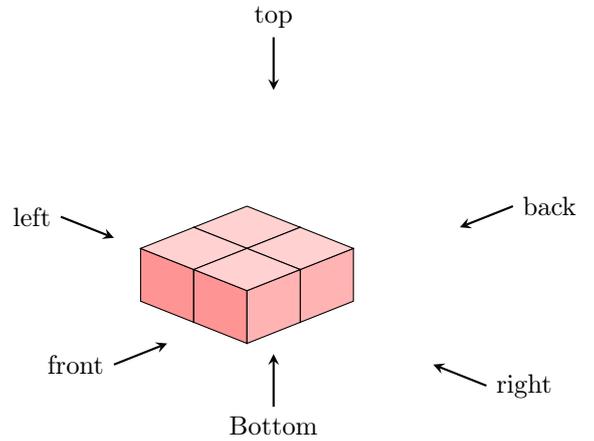
**Ex 31:** Draw the front view of this solid on your graph paper.



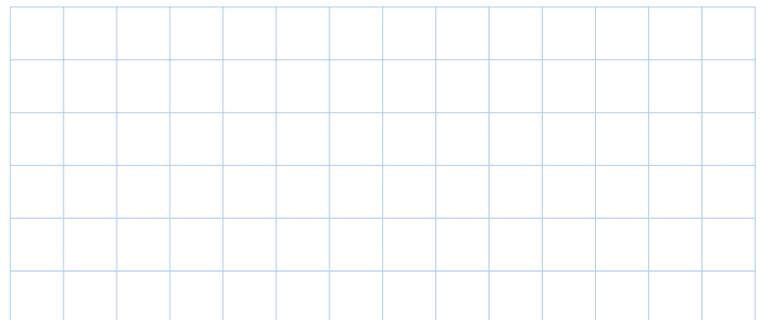
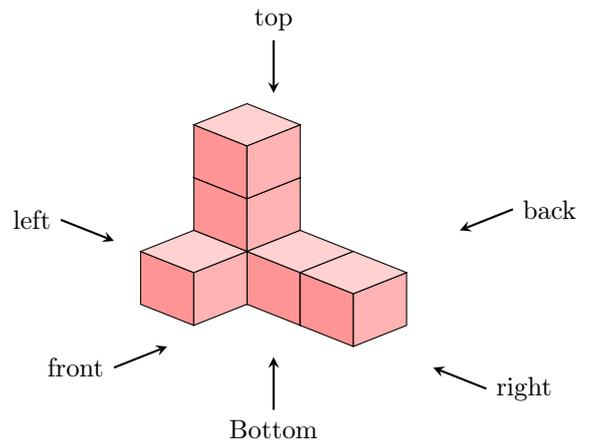
**Ex 32:** Draw the right view of this solid on your graph paper.



**Ex 33:** Draw the top view of this solid on your graph paper.



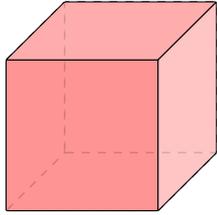
**Ex 34:** Draw the front view of this solid on your graph paper.



## E SOLID CONSTRUCTIONS

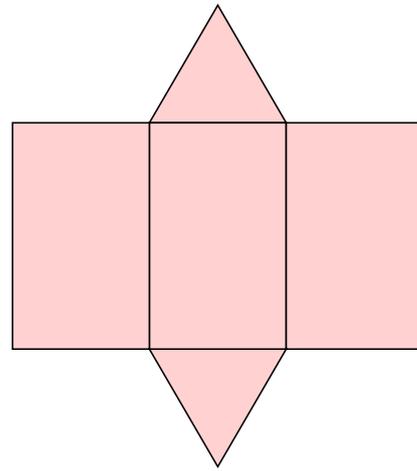
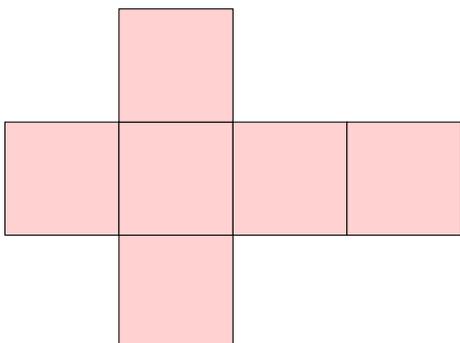
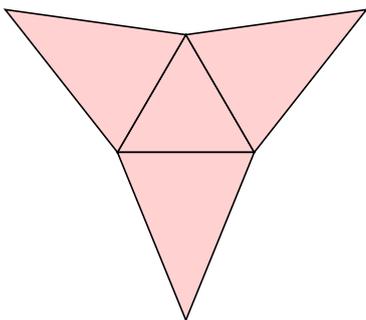
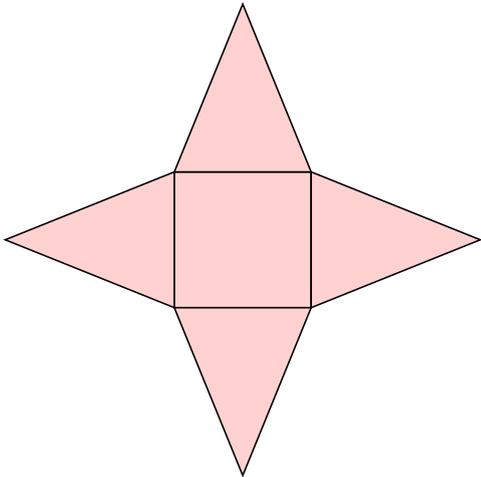
### E.1 IDENTIFYING NETS

**MCQ 35:** Identify the net that can be folded to form this 3D shape.

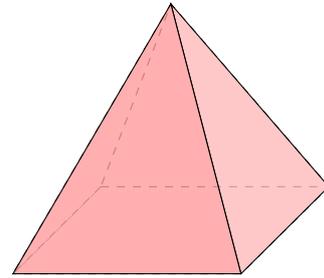


cube

Choose one answer:

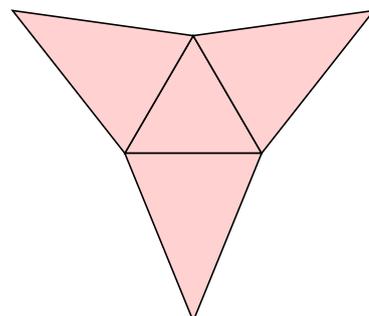
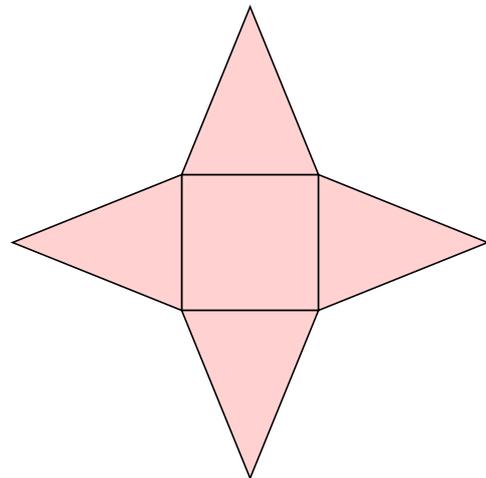


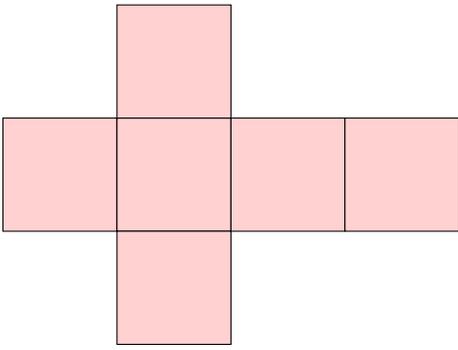
**MCQ 36:** Identify the net that can be folded to form this 3D shape.

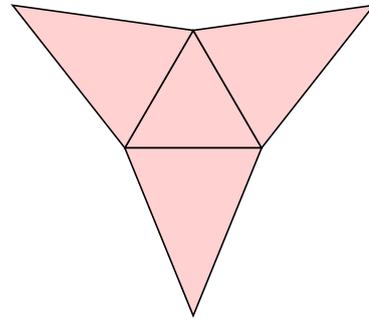


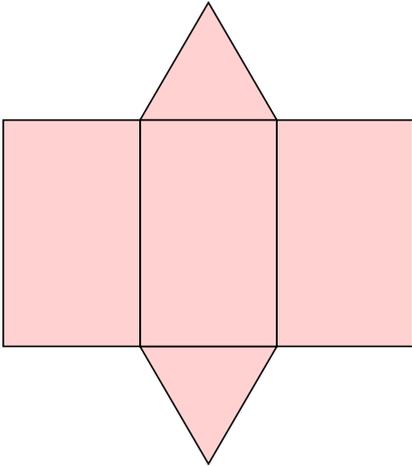
square-based pyramid

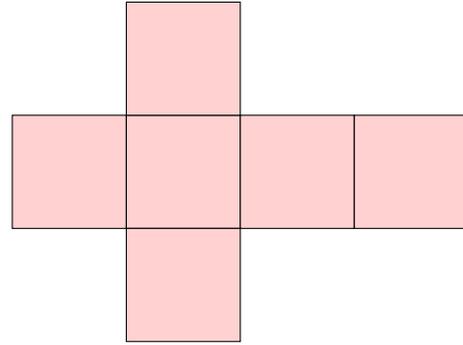
Choose one answer:



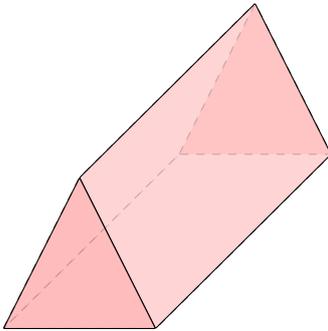




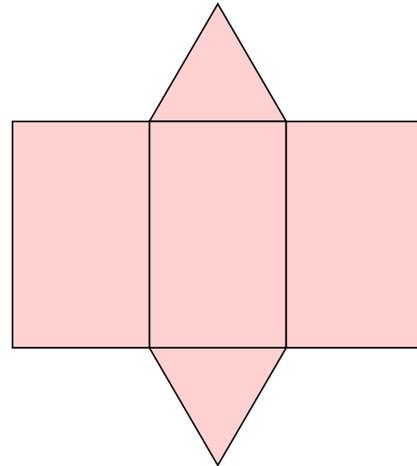





**MCQ 37:** Identify the net that can be folded to form this 3D shape.

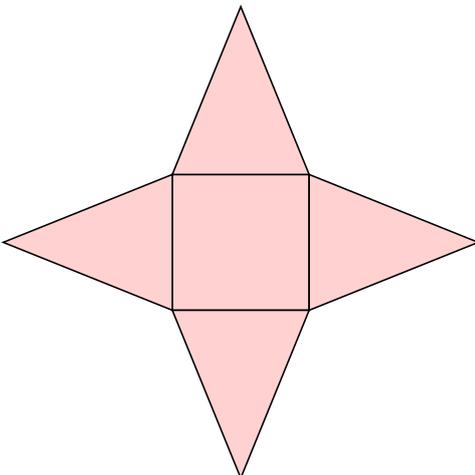


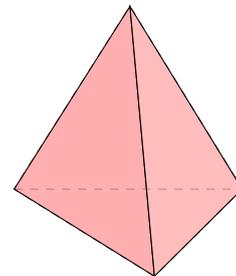
triangular prism




Choose one answer:

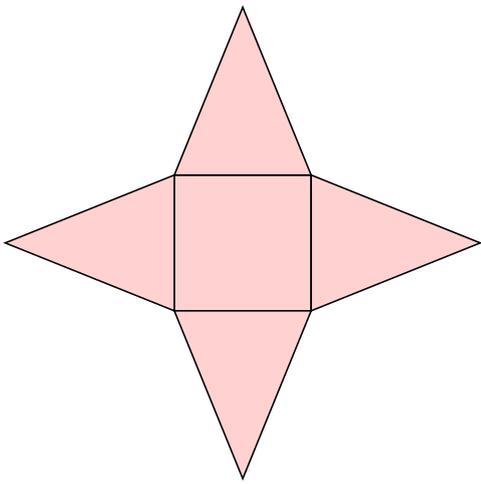
**MCQ 38:** Identify the net that can be folded to form this 3D shape.



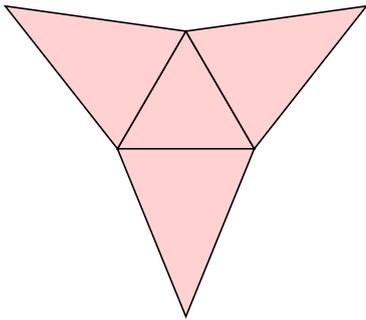


tetrahedron

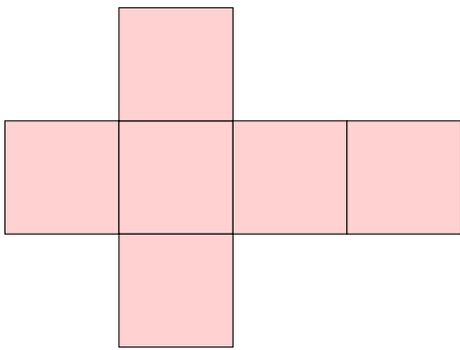
Choose one answer:



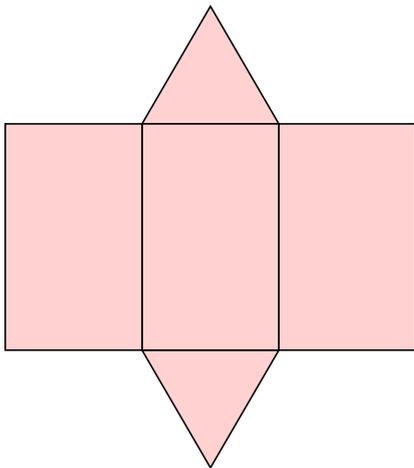
□



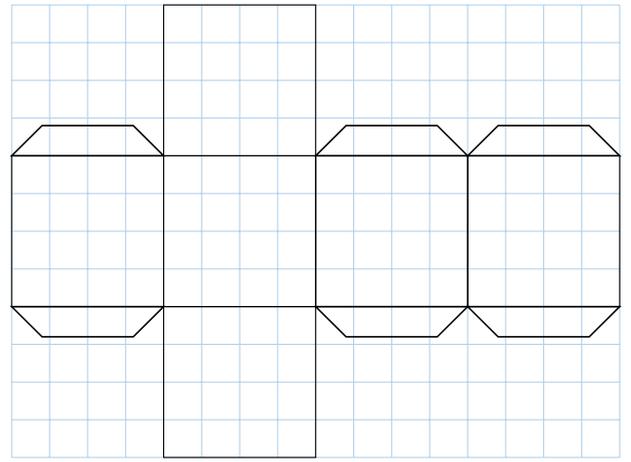
□



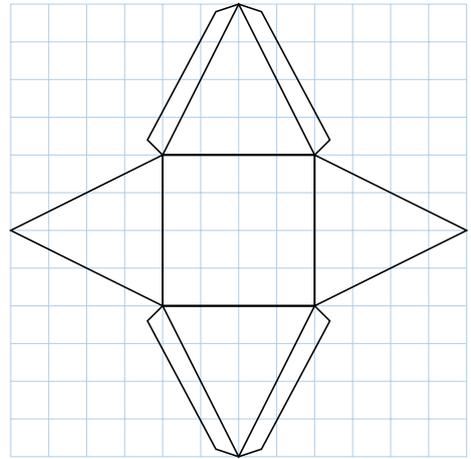
□



□



**Ex 40:** 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.



## E.2 CONSTRUCTING 3D SOLIDS FROM PAPER

**Ex 39:** 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.