

THREE-DIMENSIONAL SHAPES

A THREE-DIMENSIONAL SHAPES

A.1 IDENTIFYING FLAT OR SOLID SHAPES

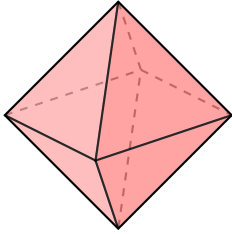
MCQ 1: Is this shape flat or solid?



Pick the right answer:

- ☐ 2D shape
- ☐ 3D shape

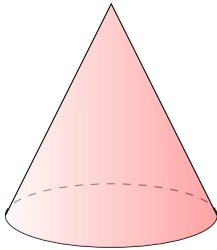
MCQ 2: Is this shape flat or solid?



Pick the right answer:

- ☐ 2D shape
- ☐ 3D shape

MCQ 3: Is this shape flat or solid?



Pick the right answer:

- ☐ 2D shape
- ☐ 3D shape

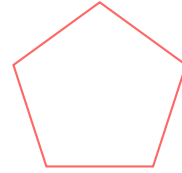
MCQ 4: Is this shape flat or solid?



Pick the right answer:

- ☐ 2D shape
- ☐ 3D shape

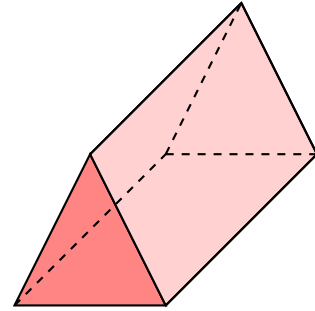
MCQ 5: Is this shape flat or solid?



Pick the right answer:

- ☐ 2D shape
- ☐ 3D shape

MCQ 6: Is this shape flat or solid?

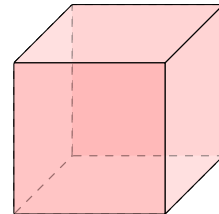


Pick the right answer:

- ☐ 2D shape
- ☐ 3D shape

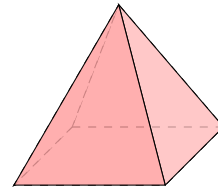
A.2 COUNTING FACES

Ex 7: How many faces does this cube have?



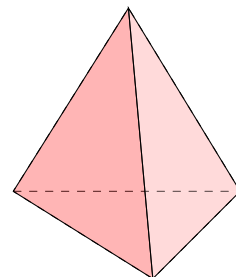
faces

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



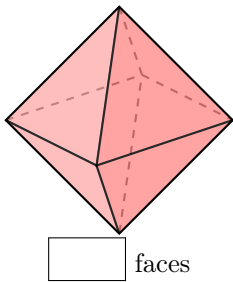
faces

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



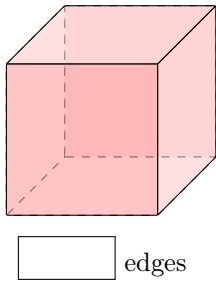
faces

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

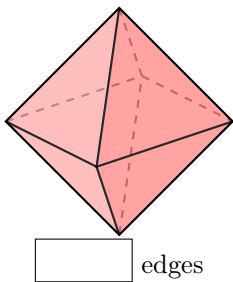


A.3 COUNTING EDGES

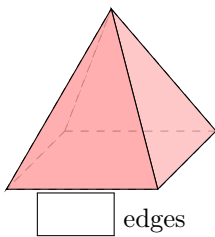
Ex 11: How many edges does this cube have?



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

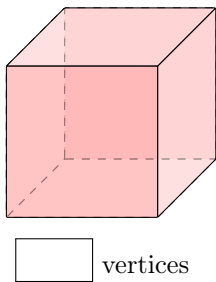


Ex 13: How many edges does this square Pyramid have?

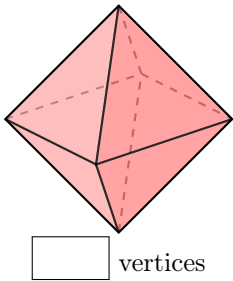


A.4 COUNTING VERTICES

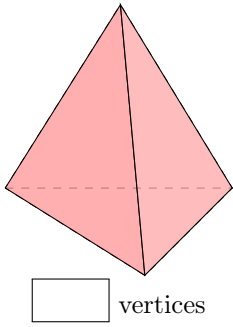
Ex 14: How many vertices does this cube have?



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



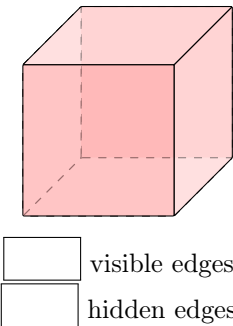
Ex 16: How many vertices does this triangular pyramid have?



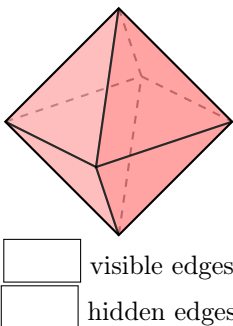
B DRAWING THREE-DIMENSIONAL SHAPES

B.1 COUNTING VISIBLE AND HIDDEN EDGES

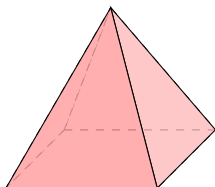
Ex 17: Count the number of visible and hidden edges on this cube

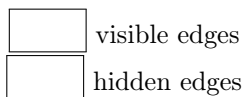


Ex 18: Count the number of visible and hidden edges on this eight-faced die.



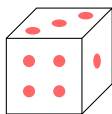
Ex 19: Count the number of visible and hidden edges on this square Pyramid.



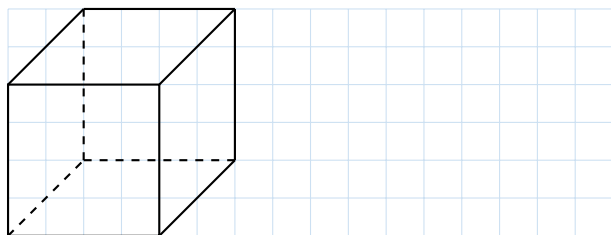


B.2 DRAWING THREE-DIMENSIONAL SHAPES

Ex 20:



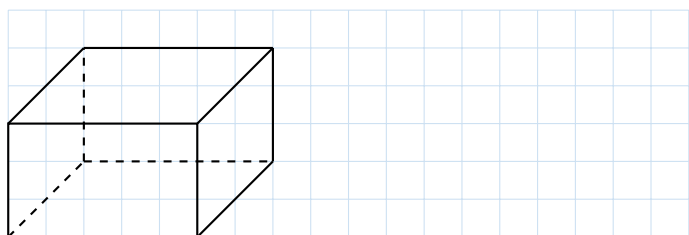
Draw this cube on your graph paper.



Ex 21:



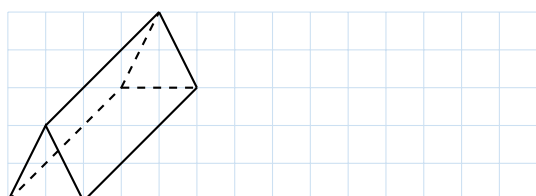
Draw this cube on your graph paper.



Ex 22:



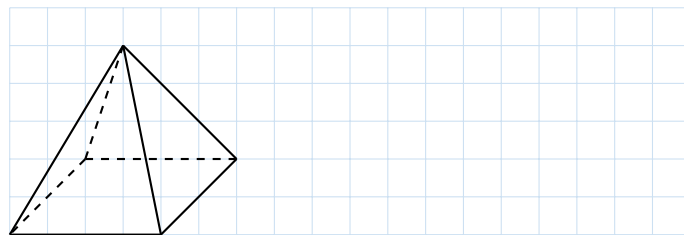
Draw this triangular prism on your graph paper.



Ex 23:



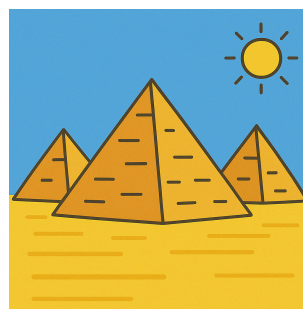
Draw this pyramid on your graph paper.



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?

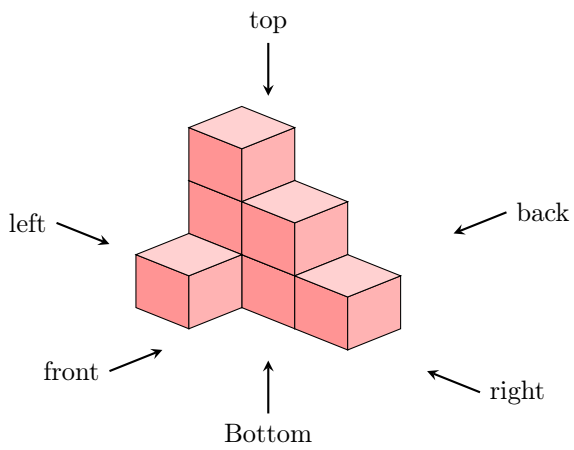


spheres

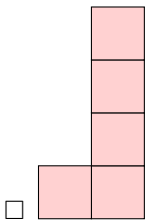
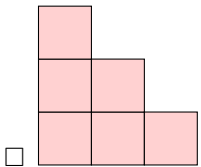
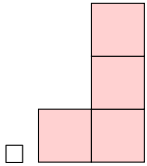
D MULTI-VIEW PROJECTION

D.1 FINDING THE PROJECTION

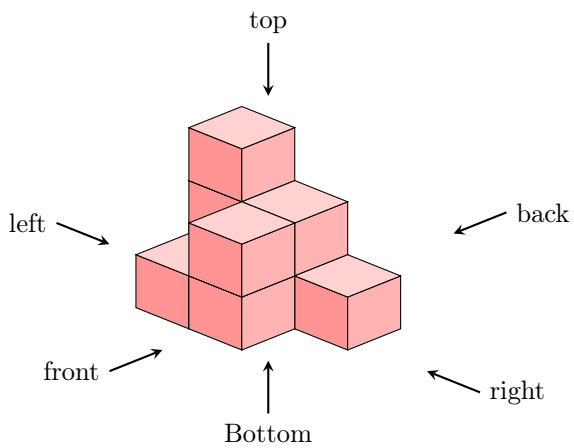
MCQ 27: Identify the front view of this solid.



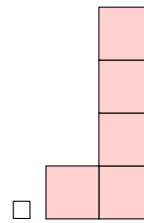
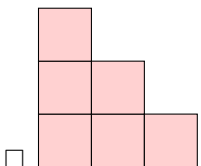
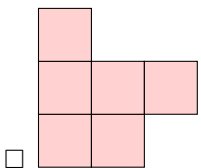
Choose one answer:



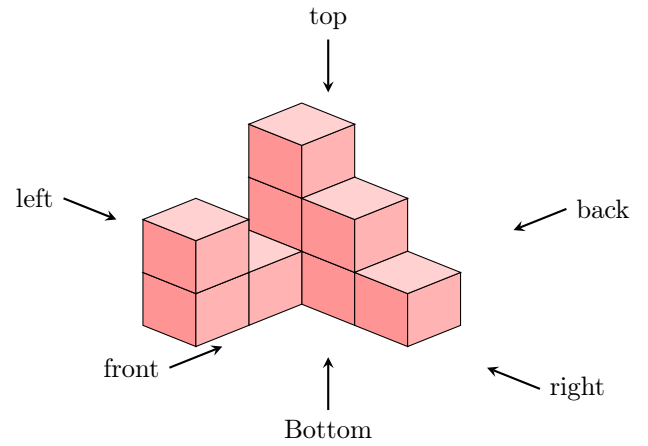
MCQ 28: Identify the top view of this solid.



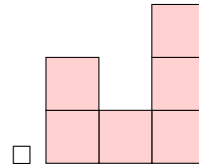
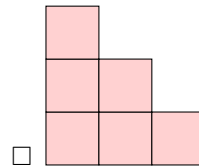
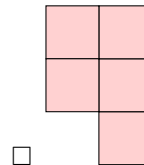
Choose one answer:



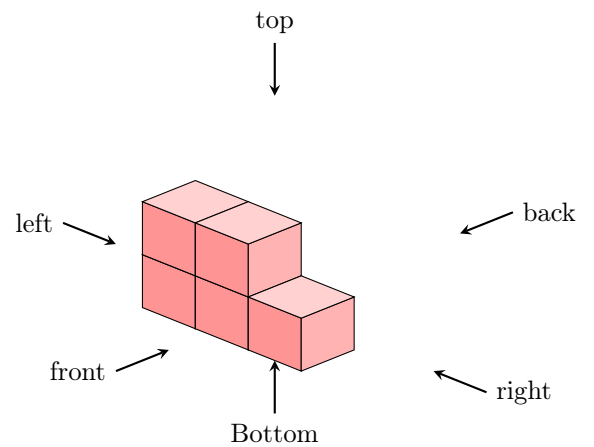
MCQ 29: Identify the right view of this solid.



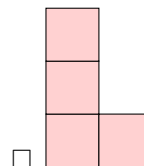
Choose one answer:

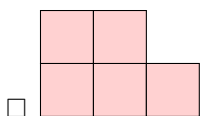
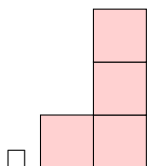


MCQ 30: Identify the front view of this solid.



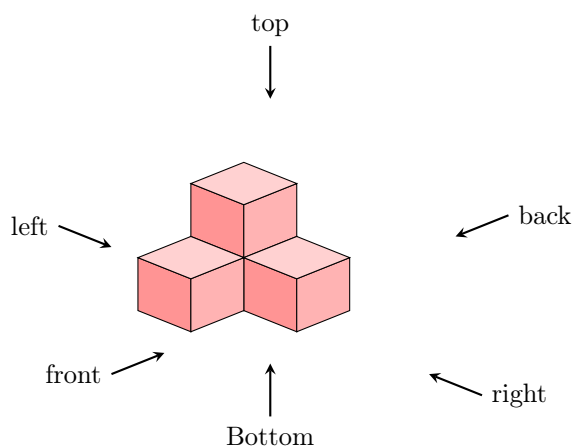
Choose one answer:



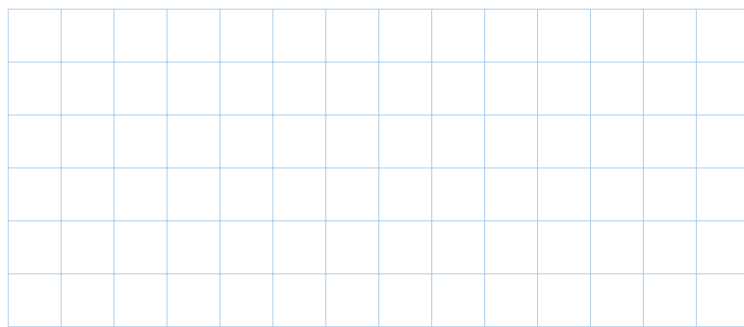
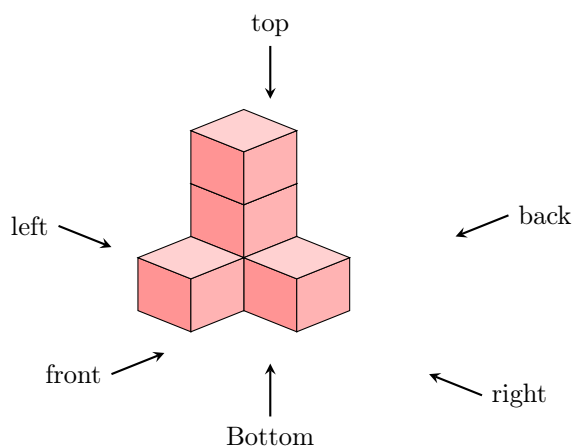


D.2 DRAWING THE PROJECTION

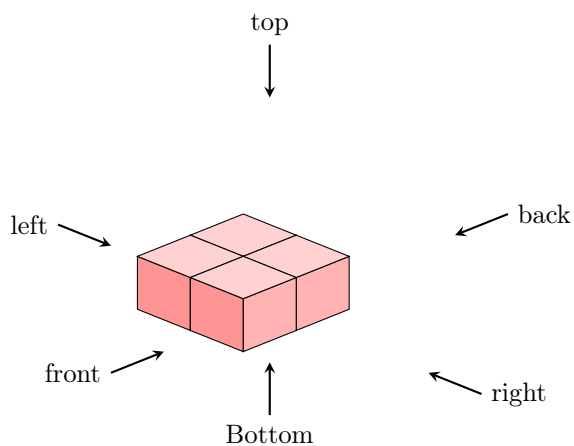
Ex 31: Draw the front view of this solid on your graph paper.



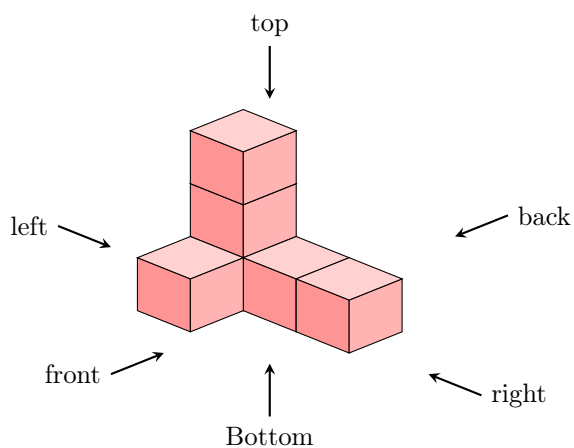
Ex 32: Draw the right view of this solid on your graph paper.



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



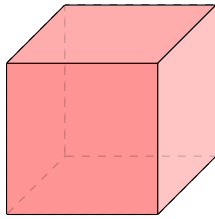
Ex 34: Draw the front view of this solid on your graph paper.



E SOLID CONSTRUCTIONS

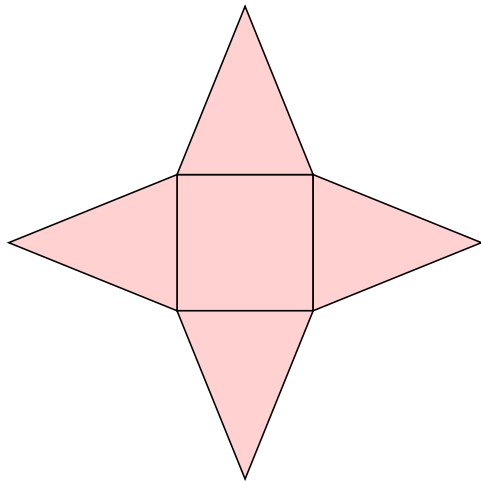
E.1 IDENTIFYING NETS

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

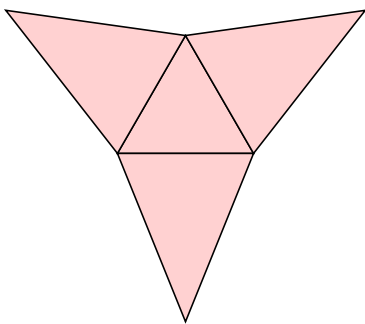


cube

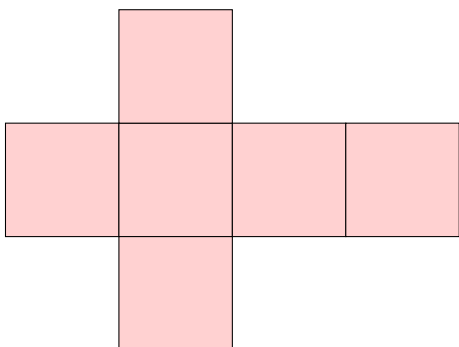
Choose one answer:



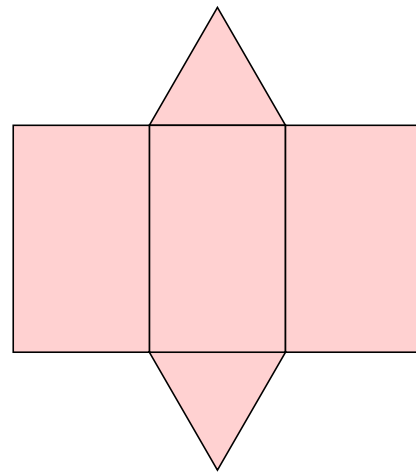
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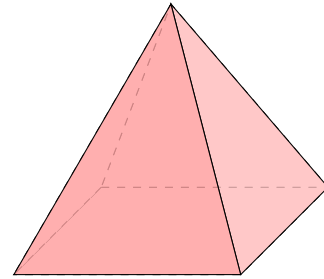


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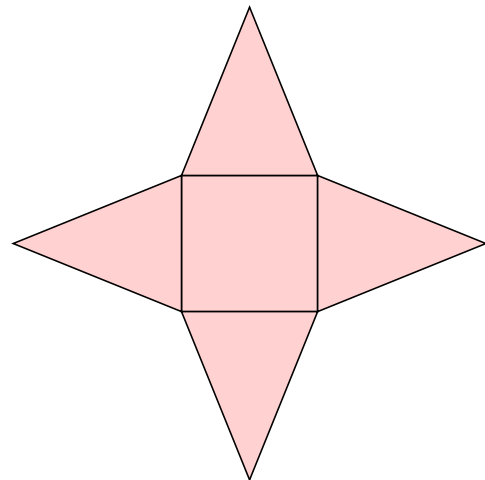
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MCQ 36: Identify the net that can be folded to form this 3D shape.

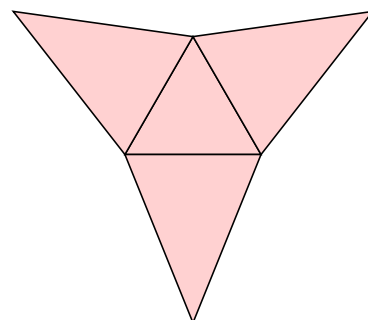


square-based pyramid

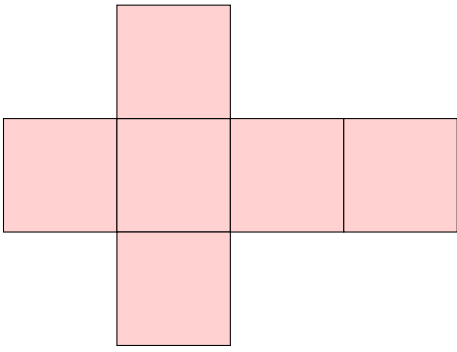
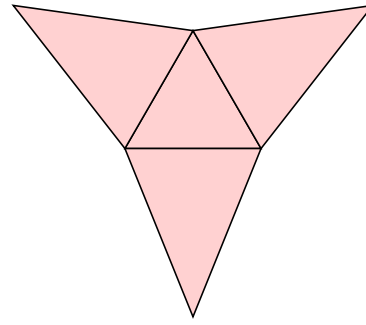
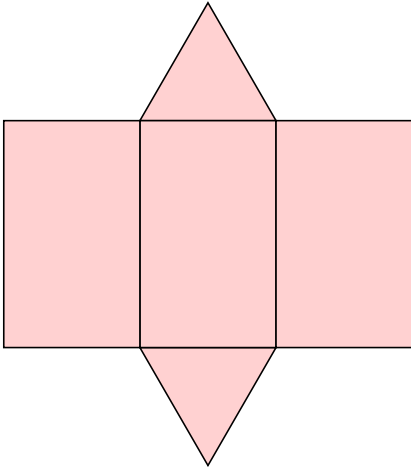
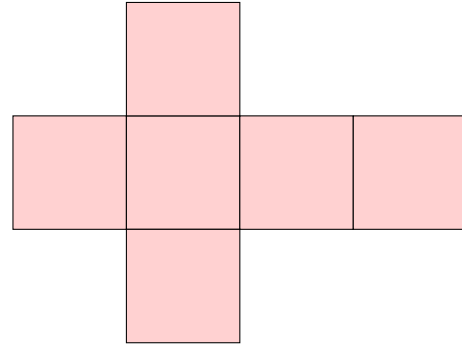
Choose one answer:



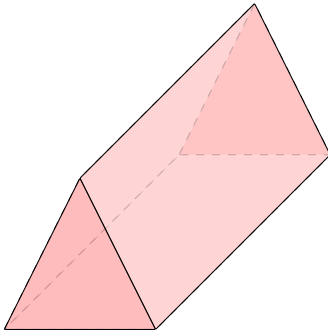
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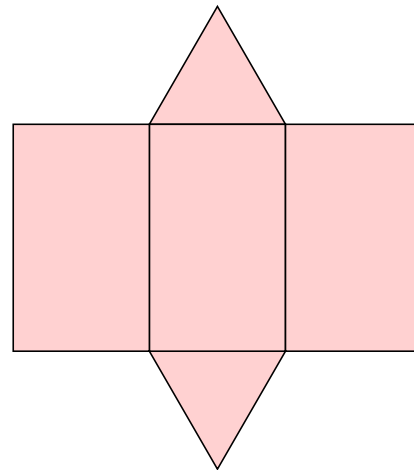

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MCQ 37: Identify the net that can be folded to form this 3D shape.

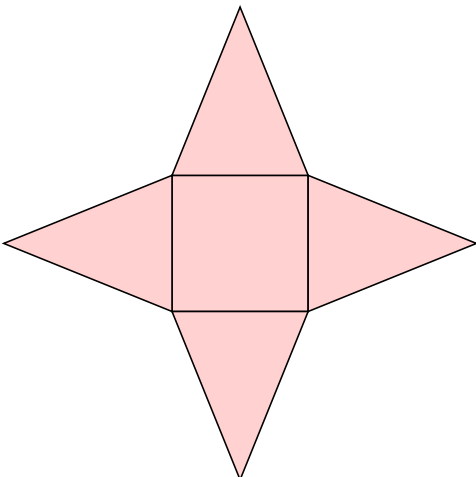
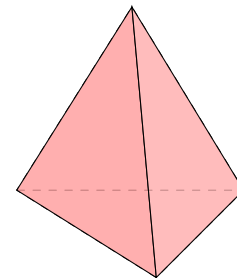


triangular prism

Choose one answer:

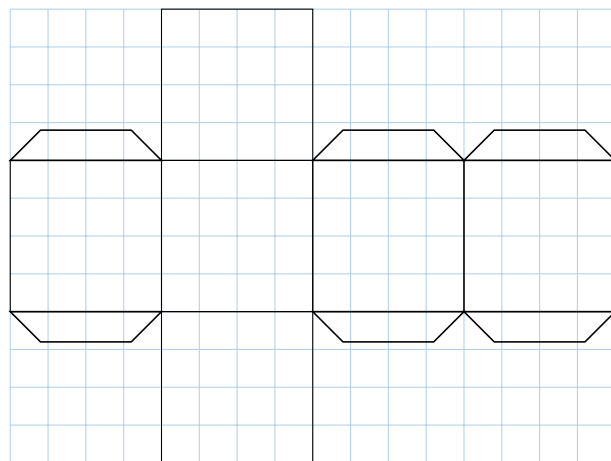
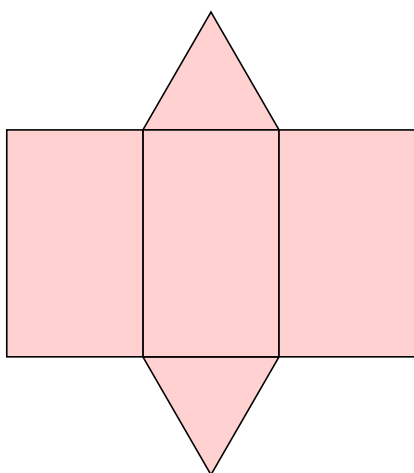
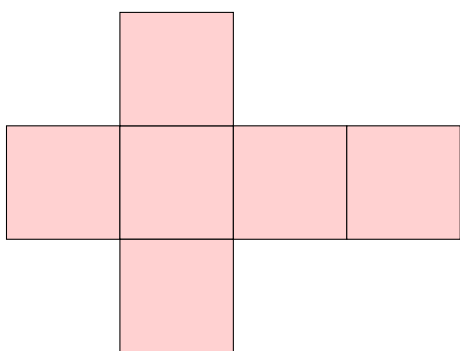
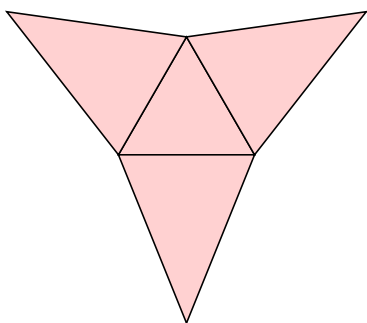
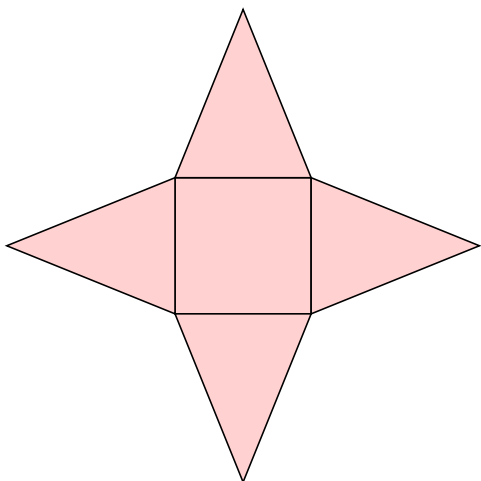

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MCQ 38: Identify the net that can be folded to form this 3D shape.

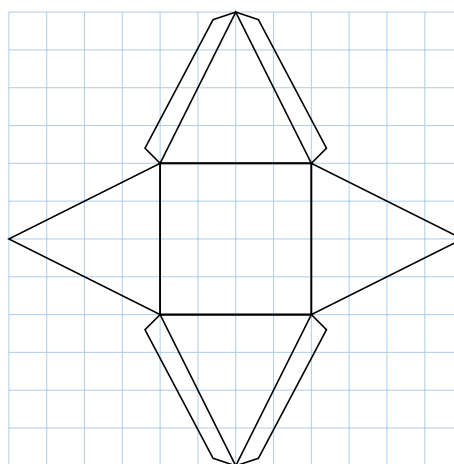

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tetrahedron

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.