THREE-DIMENSIONAL SHAPES

A THREE-DIMENSIONAL SHAPES

A.1 IDENTIFYING FLAT OR SOLID SHAPES

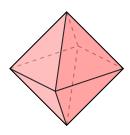
MCQ 1: Is this shape flat or solid?



Pick the right answer:

- \square 2D shape
- \square 3D shape

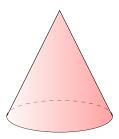
MCQ 2: Is this shape flat or solid?



Pick the right answer:

- \square 2D shape
- \Box 3D shape

MCQ 3: Is this shape flat or solid?



Pick the right answer:

- \square 2D shape
- \square 3D shape

MCQ 4: Is this shape flat or solid?



Pick the right answer:

- \square 2D shape
- \square 3D shape

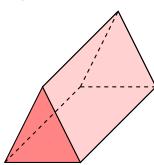
MCQ 5: Is this shape flat or solid?



Pick the right answer:

- \square 2D shape
- \square 3D shape

MCQ 6: Is this shape flat or solid?

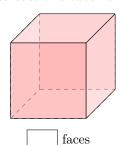


Pick the right answer:

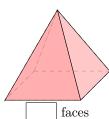
- \square 2D shape
- \square 3D shape

A.2 COUNTING FACES

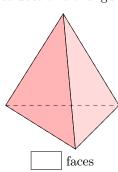
Ex 7: How many faces does this cube have?

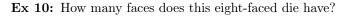


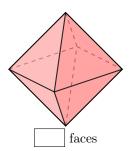
Ex 8: How many faces does this square pyramid have?



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

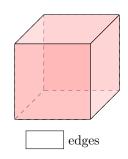




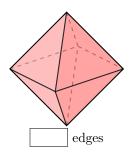


A.3 COUNTING EDGES

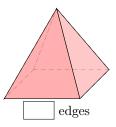
Ex 11: How many edges does this cube have?



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

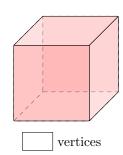


Ex 13: How many edges does this square pyramid have?

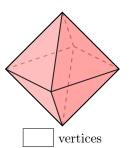


A.4 COUNTING VERTICES

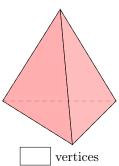
Ex 14: How many vertices does this cube have?



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



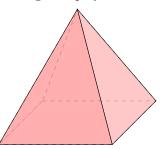
Ex 16: How many vertices does this triangular pyramid have?



B POLYHEDRON

B.1 IDENTIFYING POLYHEDRA

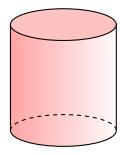
MCQ 17: Is this 3D figure a polyhedron?



Choose one answer:

- ☐ True
- $\hfill\Box$ False

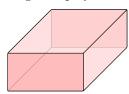
MCQ 18: Is this 3D figure a polyhedron?



Choose one answer:

- □ True
- \square False

MCQ 19: Is this 3D figure a polyhedron?

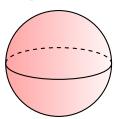


Choose one answer:	Choose one answer:
☐ True	☐ True
☐ False	\square False
MCQ 20: Is this 3D figure a polyhedron? Choose one answer:	MCQ 24: Does this building have a uniform cross section?
☐ True ☐ False	
C CROSS SECTIONS	Choose one answer:
C.1 IDENTIFYING UNIFORM CROSS SECTION	□ False
MCQ 21: Does this 3D shape have a uniform cross section?	MCQ 25: Does this 3D shape have a uniform cross section?
	sphere
Choose one answer:	
☐ True	Choose one answer:
☐ False	☐ True
MCQ 22: Does this 3D shape have a uniform cross section?	□ False
square-based pyramid	D CLASSIFICATION
	D.1 CLASSIFYING 3D SHAPES
	MCQ 26: Which 3D shape is shown below?
Choose one answer:	
□ True □ False	Choose one answer:
	□ Cone
MCQ 23: Does this 3D shape have a uniform cross section?	☐ Cylinder ☐ Triangular prism MCQ 27: Which 3D shape is shown below?

Choose one answer:

- \square Cone
- ☐ Triangular prism
- \square Rectangular prism

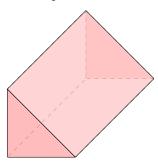
MCQ 28: Which 3D shape is shown below?



The shape above matches this description.

- \square Cone
- \square Sphere
- ☐ Cylinder

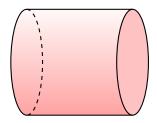
MCQ 29: Which 3D shape is shown below?



Choose one answer:

- ☐ Cylinder
- ☐ Triangular prism
- ☐ Rectangular prism

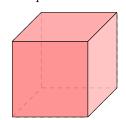
MCQ 30: Which 3D shape is shown below?



Choose one answer:

- \square Cylinder
- \square Cone
- □ Sphere

MCQ 31: Which 3D shape is shown below?



Choose one answer:

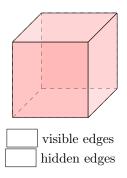
- ☐ Rectangular pyramid
- \square Square pyramid
- \Box Cube

E DRAWING SHAPES

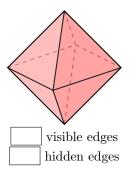
THREE-DIMENSIONAL

E.1 COUNTING VISIBLE AND HIDDEN EDGES

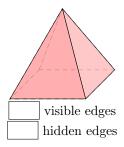
Ex 32: Count the number of visible and hidden edges on this cube



 \mathbf{Ex} 33: Count the number of visible and hidden edges on this eight-faced die.



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

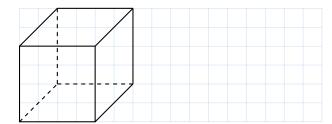


E.2 DRAWING THREE-DIMENSIONAL SHAPES

Ex 35:



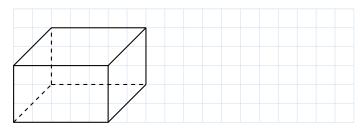
Draw this cube on your graph paper.



Ex 36:



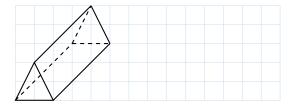
Draw this solid on your graph paper.



Ex 37:



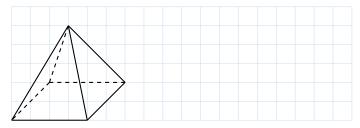
Draw this triangular prism on your graph paper.



Ex 38:



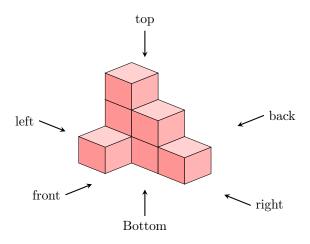
Draw this pyramid on your graph paper.



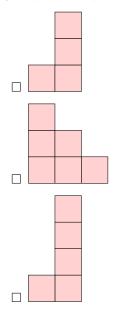
F MULTI-VIEW PROJECTION

F.1 FINDING THE PROJECTION

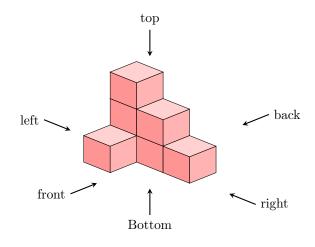
MCQ 39: Identify the front view of this solid.



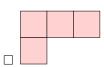
Choose one answer:

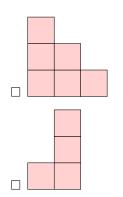


MCQ 40: Identify the top view of this solid.

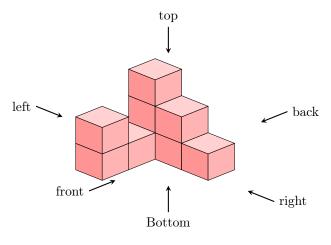


Choose one answer:

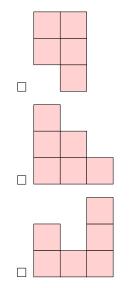




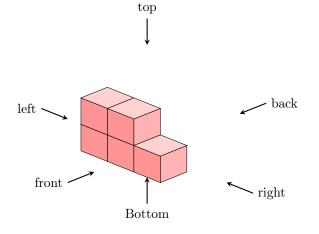
MCQ 41: Identify the right view of this solid.

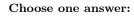


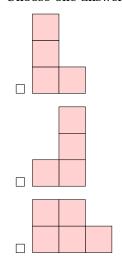
Choose one answer:



MCQ 42: Identify the front view of this solid.

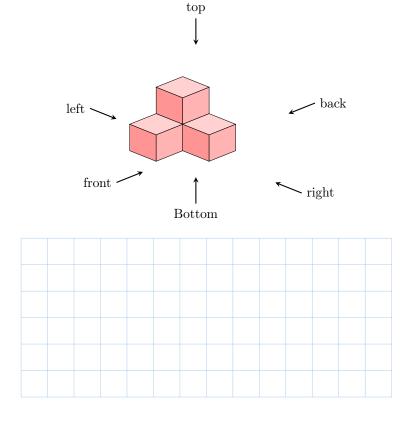




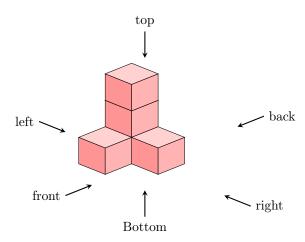


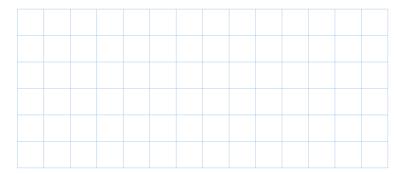
F.2 DRAWING THE PROJECTION

 $\mathbf{Ex}\ \mathbf{43:}\ \mathbf{Draw}$ the front view of this solid on your graph paper.



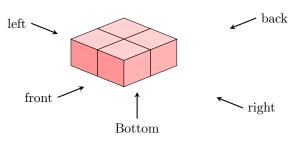
Ex 44: Draw the right view of this solid on your graph paper.





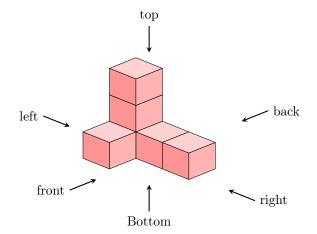
Ex 45: Draw the top view of this solid on your graph paper.







 $\mathbf{Ex}\ \mathbf{46:}\ \mathbf{Draw}$ the front view of this solid on your graph paper.

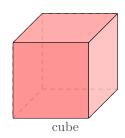




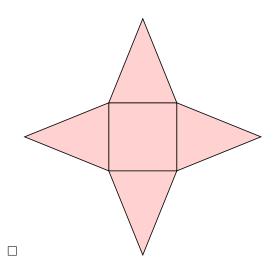
G SOLID CONSTRUCTIONS

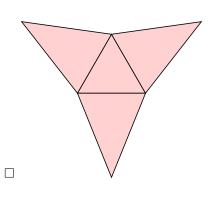
G.1 IDENTIFYING NETS

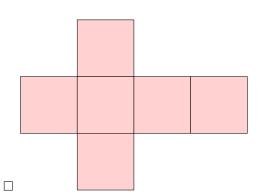
 \mathbf{MCQ} 47: Identify the net that can be folded to form this 3D shape.

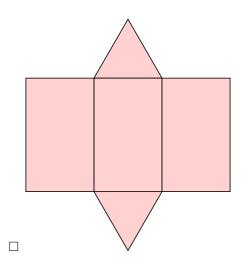


Choose one answer:

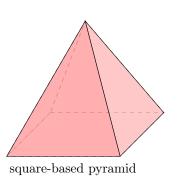




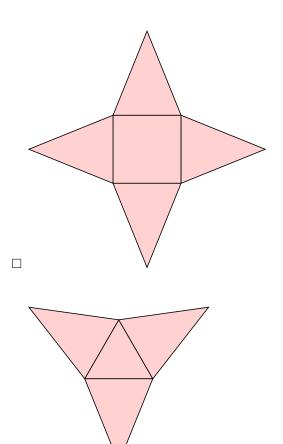


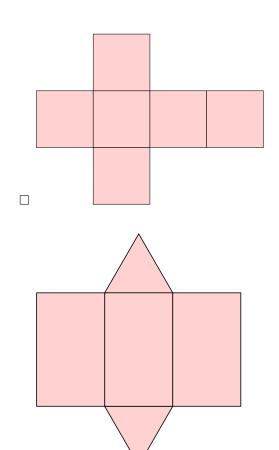


 \mathbf{MCQ} 48: Identify the net that can be folded to form this 3D shape.

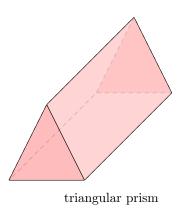


Choose one answer:

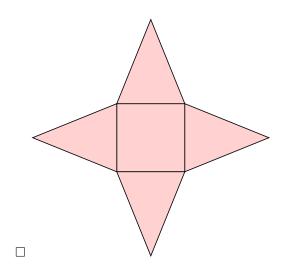


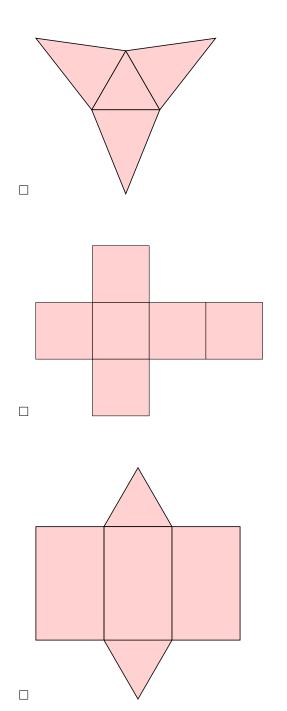


 \mathbf{MCQ} 49: Identify the net that can be folded to form this 3D shape.

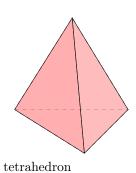


Choose one answer:

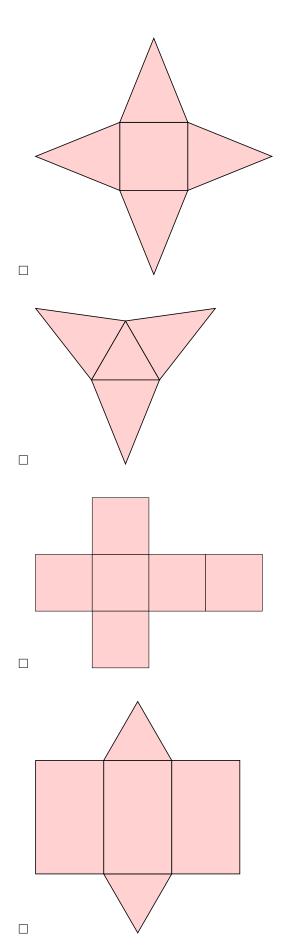




 \mathbf{MCQ} 50: Identify the net that can be folded to form this 3D shape.

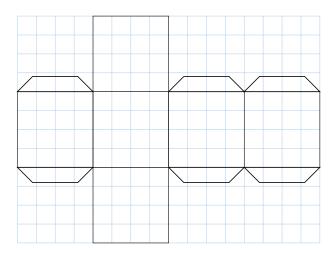


Choose one answer:



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.

