THREE-DIMENSIONAL SHAPES

A THREE-DIMENSIONAL SHAPES

A.1 IDENTIFYING FLAT OR SOLID SHAPES
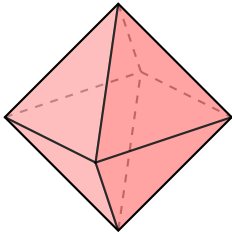
MCQ 1: Is this shape flat or solid?

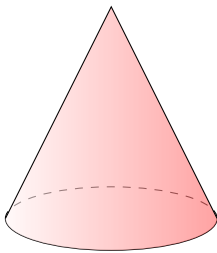**Pick the right answer:**

☐ 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:

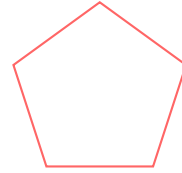☐ 2D shape

☐ 3D shape

MCQ 4: Is this shape flat or solid?

Pick the right answer:
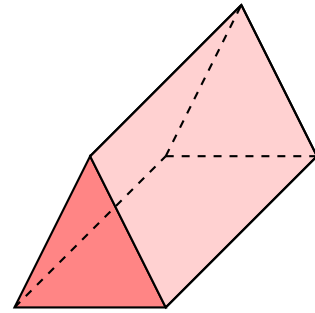
☐ 2D shape

☐ 3D shape

MCQ 5: Is this shape flat or solid?

Pick the right answer:

☐ 2D shape

☐ 3D shape
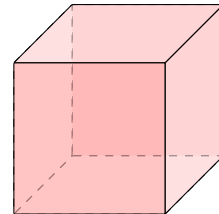
MCQ 6: Is this shape flat or solid?

Pick the right answer:
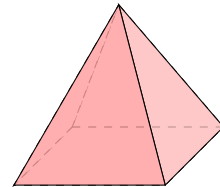
☐ 2D shape

☐ 3D shape

A.2 COUNTING FACES
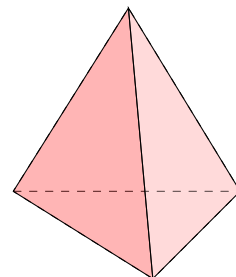
Ex 7: How many faces does this cube have?

☐ faces

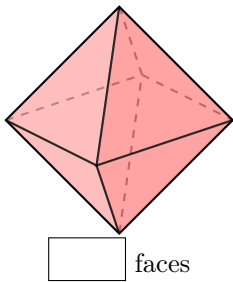**Ex 8:** How many faces does this square Pyramid have?

☐ faces

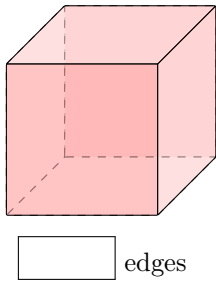**Ex 9:** How many faces does this triangular pyramid have?

☐ faces

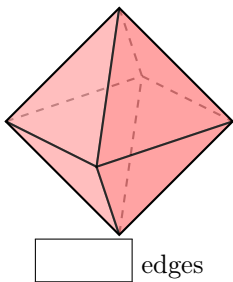**Ex 10:** How many faces does this eight-faced die have?

[____] faces
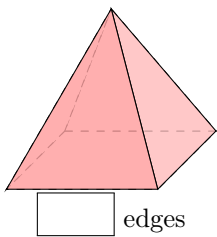
A.3 COUNTING EDGES

Ex 11: How many edges does this cube have?

[____] edges

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

[____] edges

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

[____] edges

A.4 COUNTING VERTICES

Ex 14: How many vertices does this cube have?
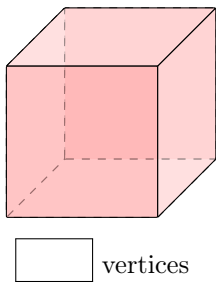
[____] vertices

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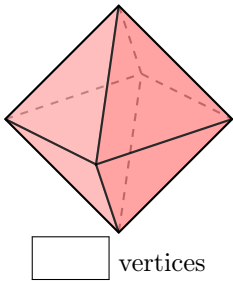
[____] vertices

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

[____] vertices
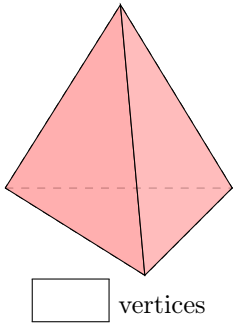
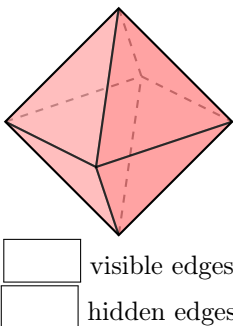## B   DRAWING   THREE-DIMENSIONAL SHAPES

B.1 COUNTING VISIBLE AND HIDDEN EDGES

Ex 17: Count the number of visible and hidden edges on this cube
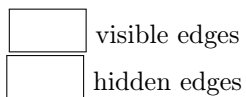
[____] visible edges
[____] hidden edges
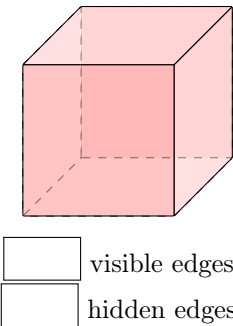
Ex 18: Count the number of visible and hidden edges on this eight-faced die.

[____] visible edges
[____] hidden edges

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

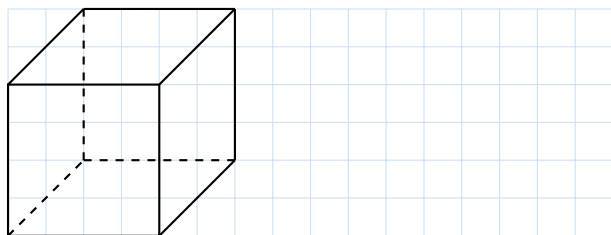| | visible edges |
| | hidden edges |
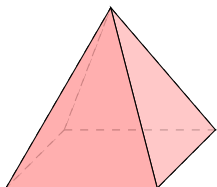
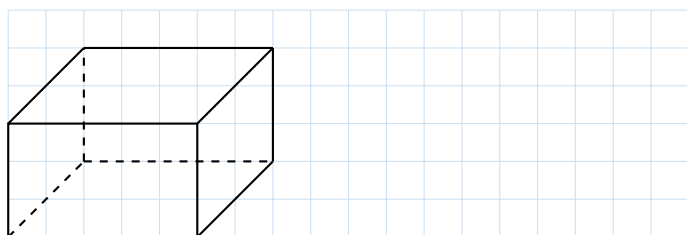## B.2 DRAWING THREE-DIMENSIONAL SHAPES

Ex 20:
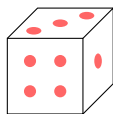
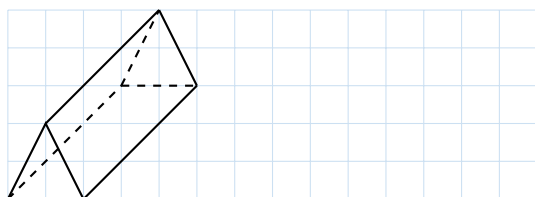Draw this cube on your graph paper.

Ex 21:

Draw this cube on your graph paper.
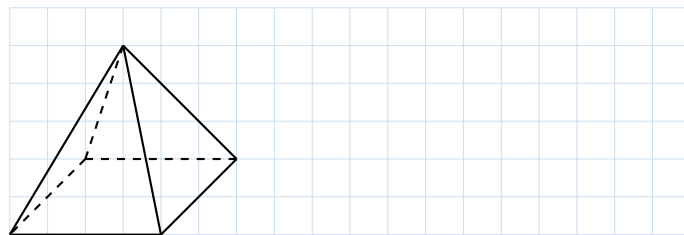

Ex 22:

Draw this triangular prism on your graph paper.
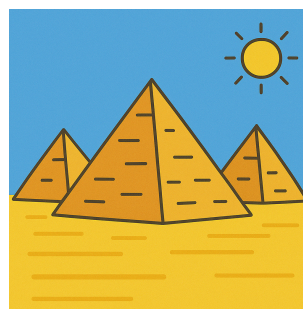

Ex 23:

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 |

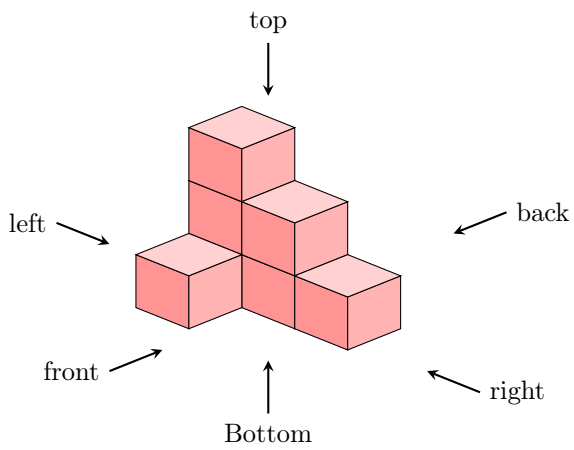**Ex 26:** Can you find all the spheres in the picture?
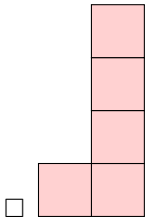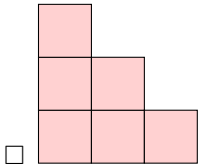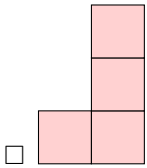

| | spheres |

D MULTI-VIEW PROJECTION

D.1 FINDING THE PROJECTION

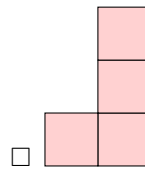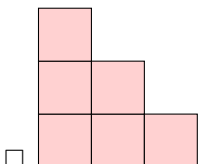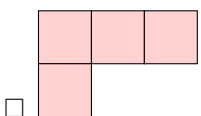**MCQ 27:** Identify the front view of this solid.
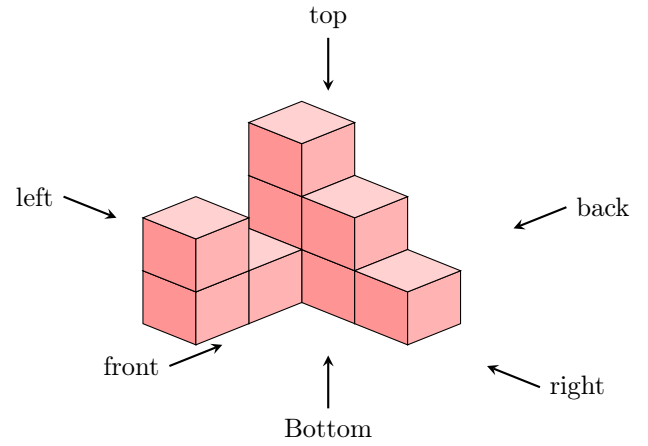
top

left

back

front

right

Bottom

Choose one answer:

☐

☐

☐

MCQ 28: Identify the top view of this solid.
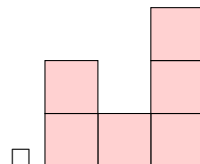
top

left

back

front

right

Bottom
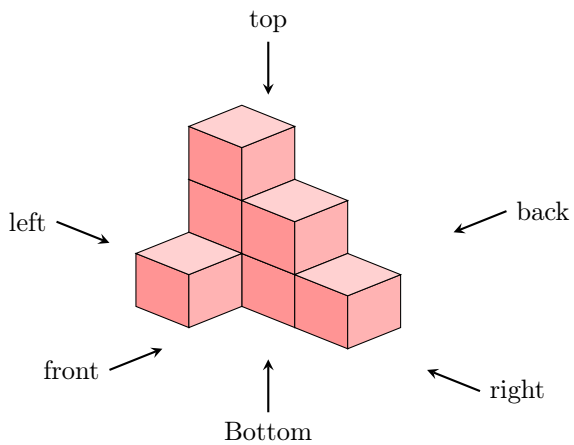
Choose one answer:

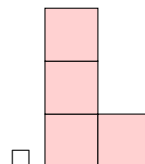☐

☐

☐

MCQ 29: Identify the right view of this solid.
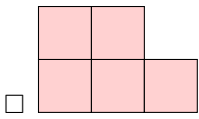
top

left

back

front

right

Bottom

Choose one answer:

☐

☐

☐

MCQ 30: Identify the front view of this solid.
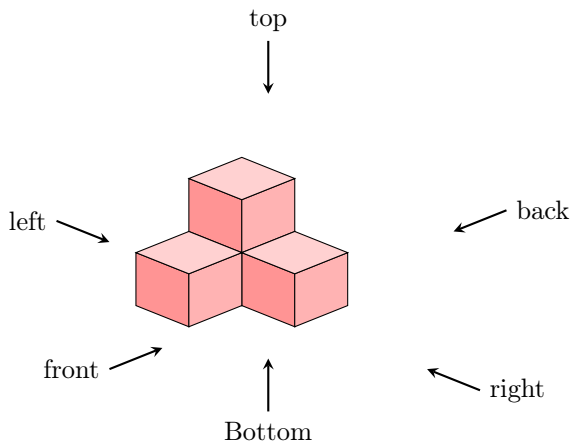
top

left

back

front

right

Bottom
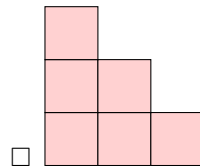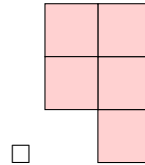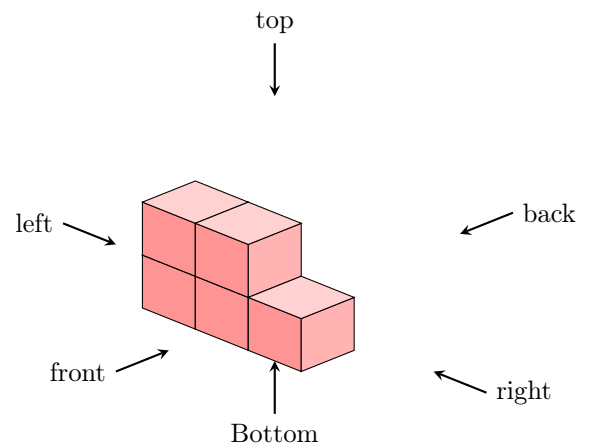
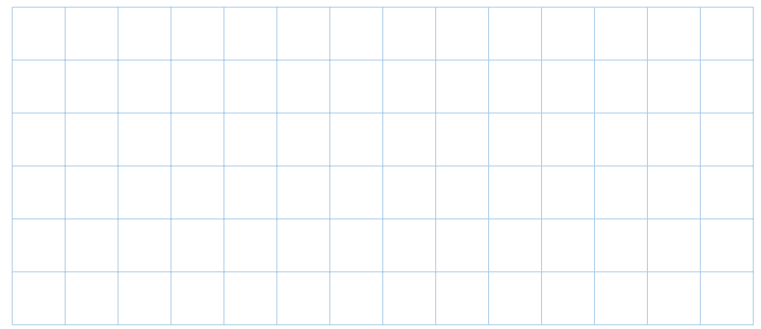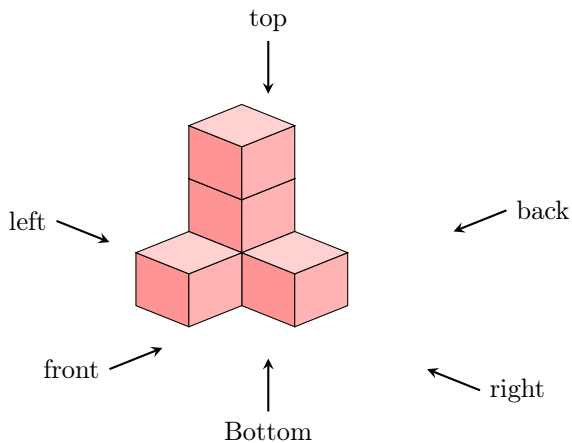**Choose one answer:**
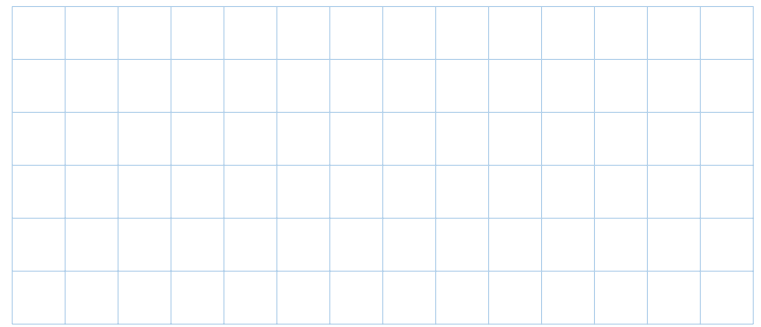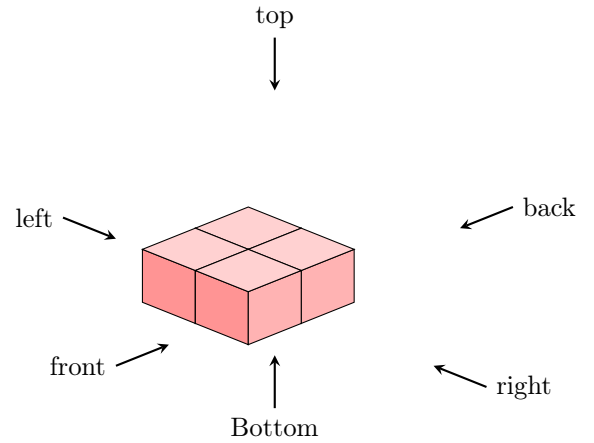
☐
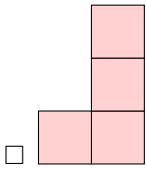
D.2 DRAWING THE PROJECTION

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.