MATHS

BOOKS - VGS PUBLICATION-BRILLIANT

VISUALISSING-3-D-IN2-D

Exercise

1. Name some 3-Dimensional objects.

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2. Give some examples of 2 - Dimensional objects.

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3. Draw a kite in your notebook. Is it 2-D or 3-D object?

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4. Identify some objects which are in cube or cuboid shape.

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5. How many dimensions that a circle and sphere have?

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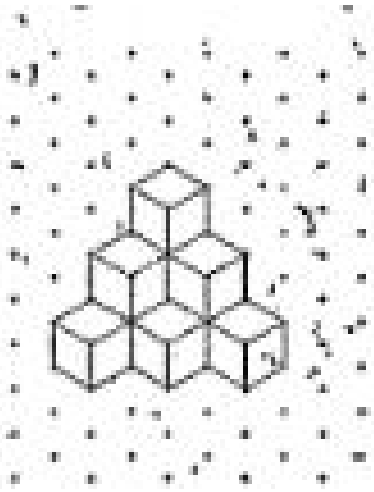
6. Identify the number of cubes in the adjacent figure.



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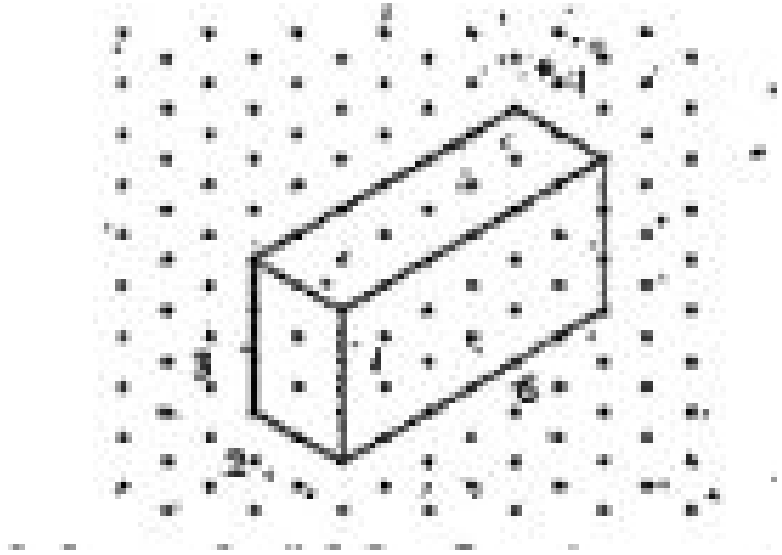
7. Find the measurements of cuboid in the adjacent figure.Considering the distance between every two consecutive dots to bel

unit.Also draw a side view, front view and top view with proportional measure ments.



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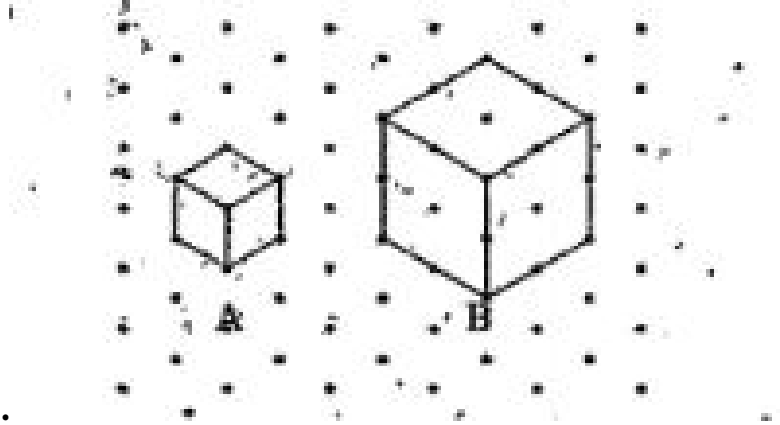
8. Look at the adjacent figure. Find the number of unit cubes in cube A and cube B and find



the ratio.

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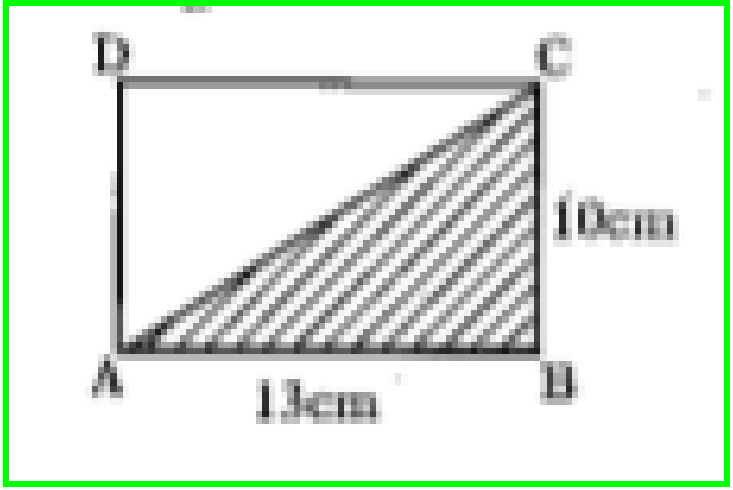
9. Find the Area of the shaded portion in the adjacent figure.



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10. Draw a cuboid on the isometric dot sheet with the measurements 5 units $\times$ 3 units $\times$ 2 units.

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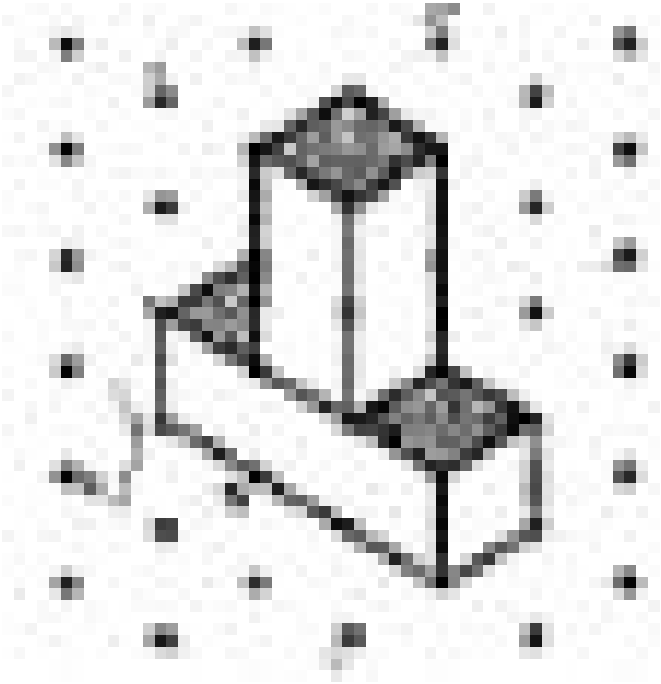
11. Find the number of unit cubes in the following 3-D figures.



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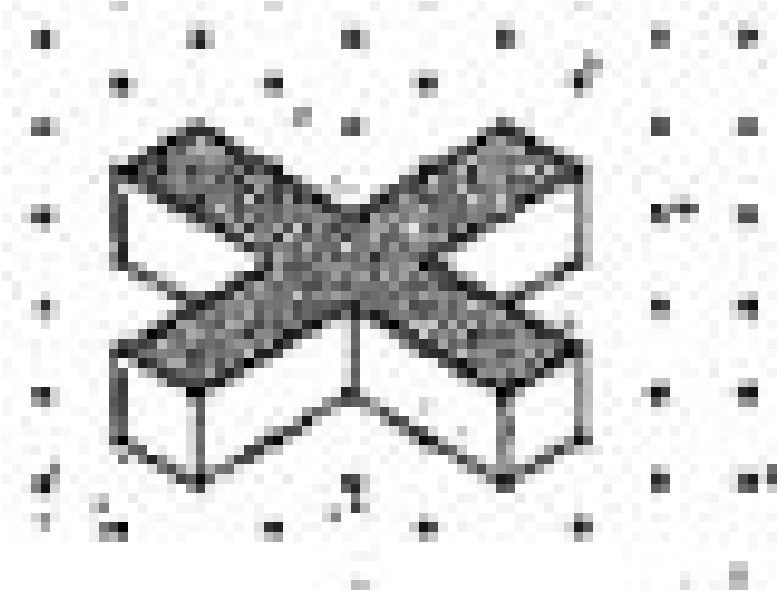
12. Find the number of unit cubes in the following 3-D figures.



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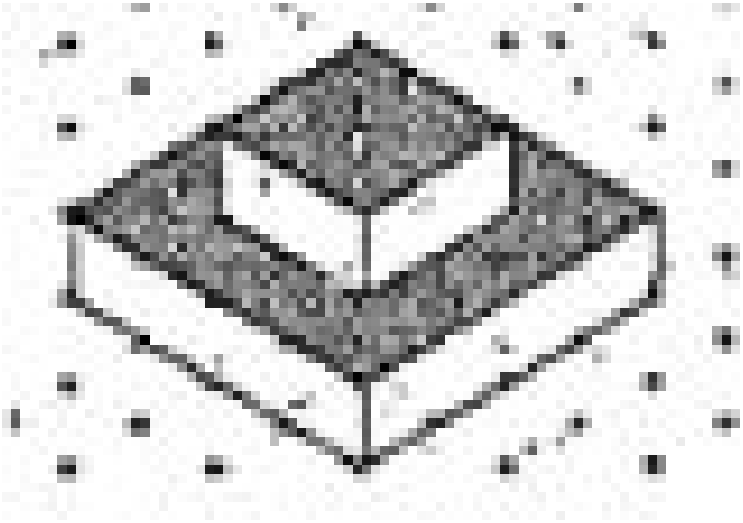
13. Find the number of unit cubes in the following 3-D figures.



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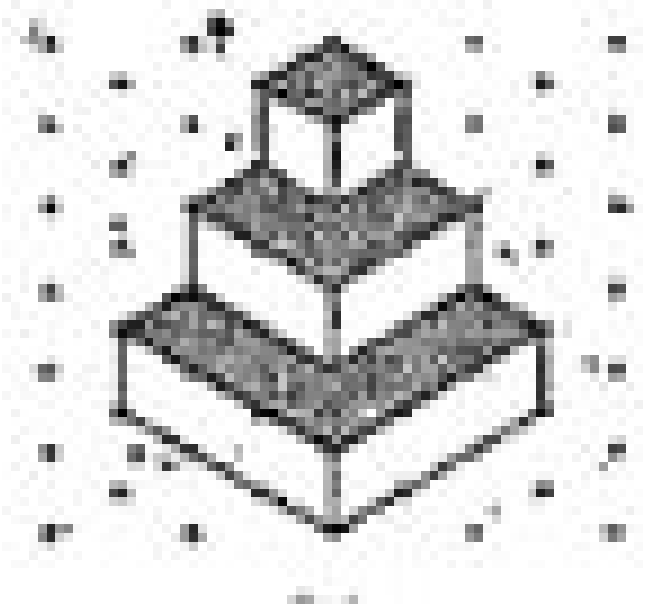
14. Find the number of unit cubes in the following 3-D figures.



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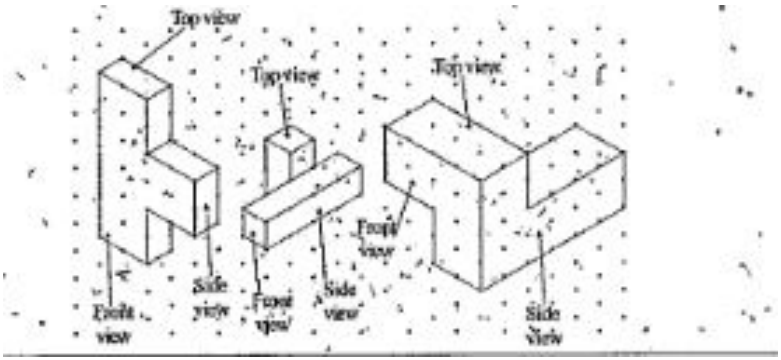
15. Consider the distance between two consecutive dots to be 1 cm and draw the front view, side view and top view of the

following 3-D figures.



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16. Name three things which are the examples of polyhedron.

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17. Name three things which are the examples of non-polyhedron.

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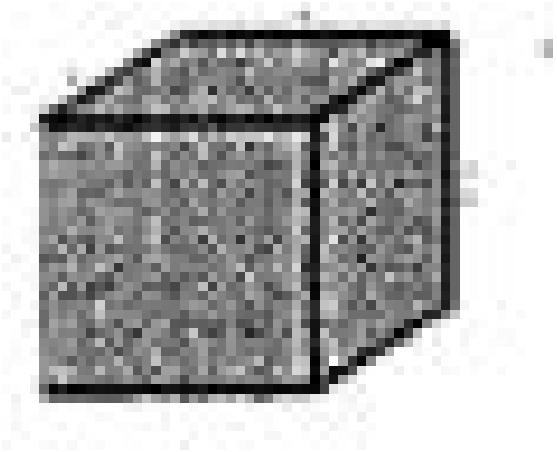
18. Identify the faces, edges and vertices of given figures.



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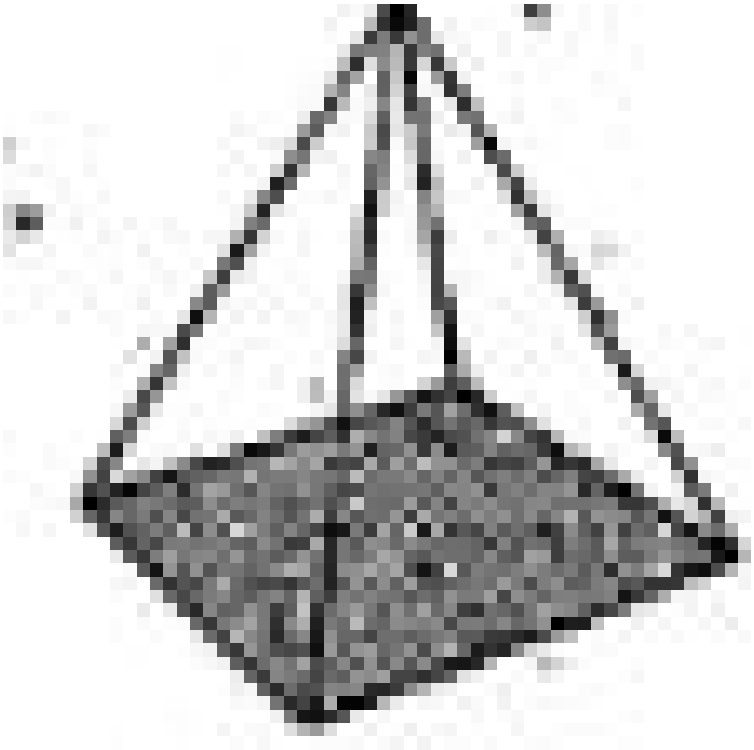
19. Identify the faces, edges and vertices of given figures.



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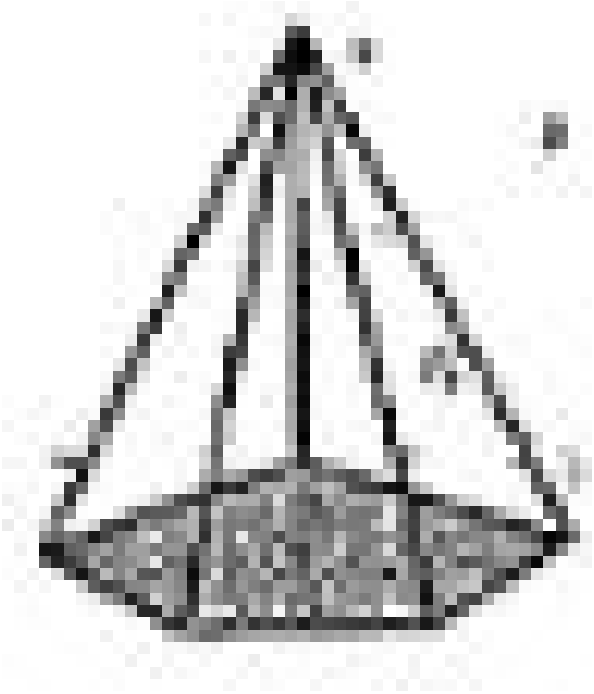
20. Identify the faces, edges and vertices of given figures.



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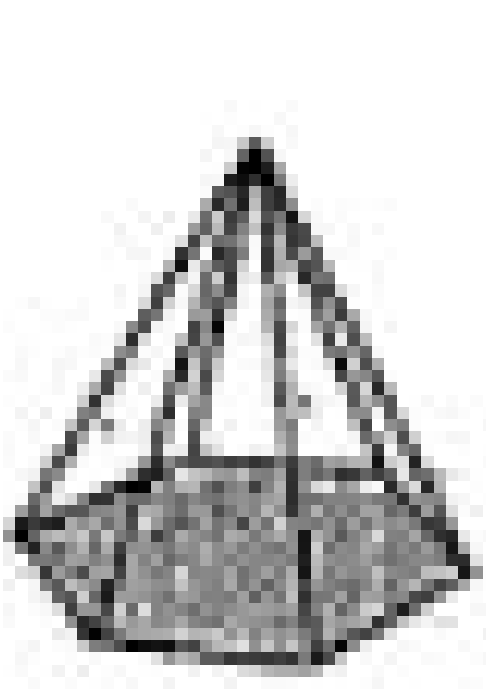
21. Identify the faces, edges and vertices of given figures.



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22. Identify the faces, edges and vertices of given figures.

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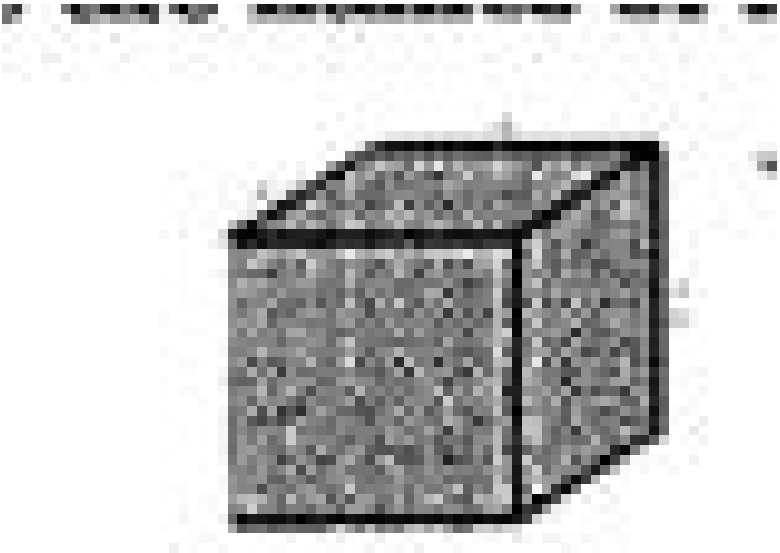
23. Write the name of the prism given below.



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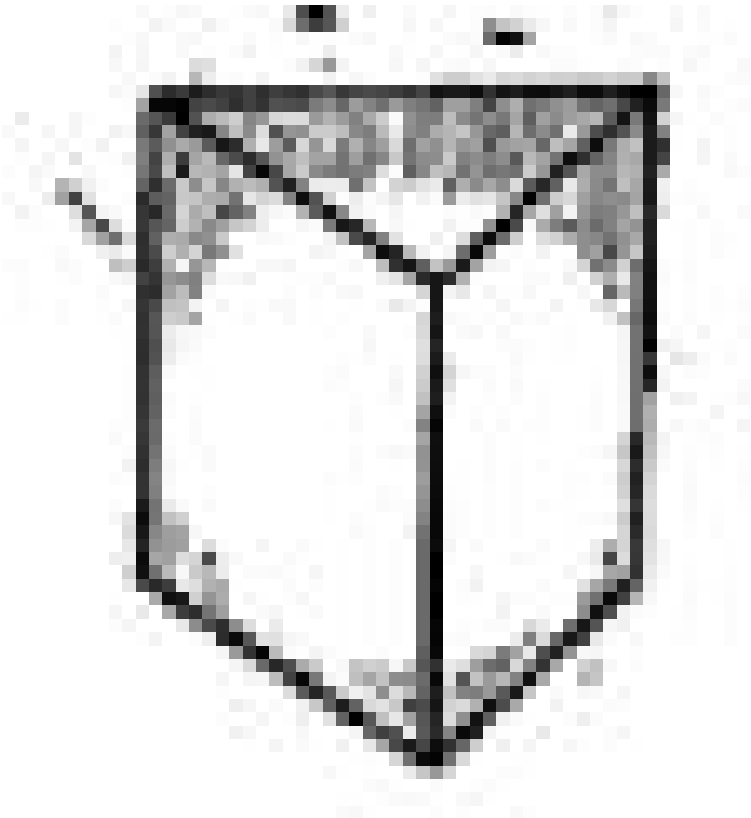
24. Write the names of the prisms given below.



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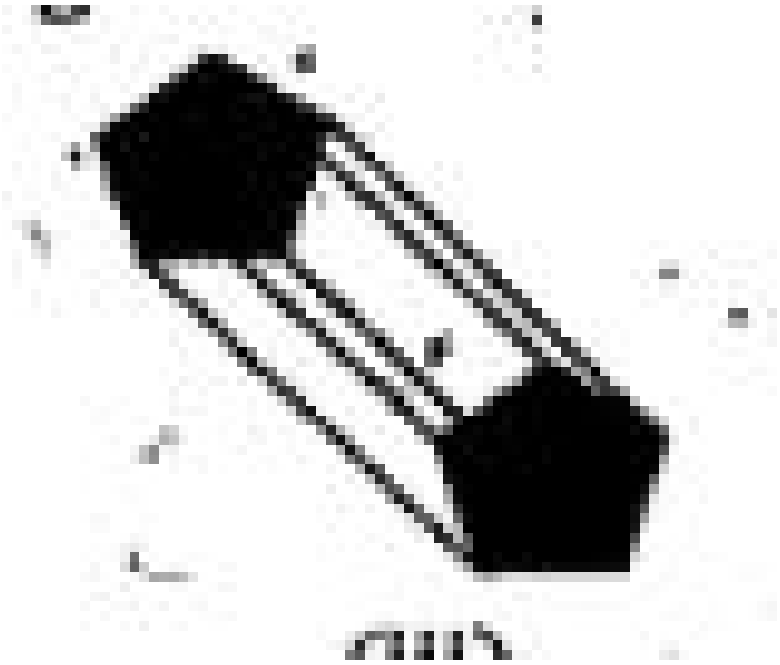
25. Write the names of the prisms given below.



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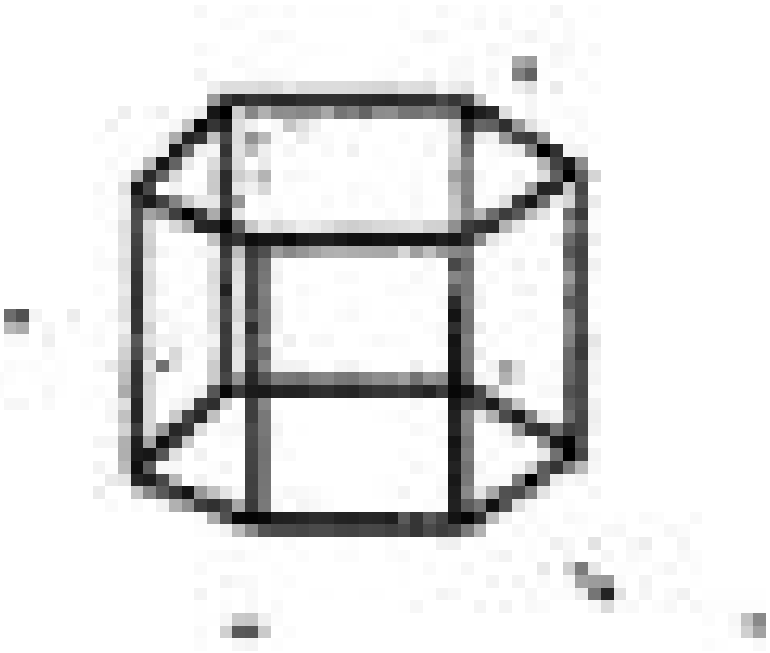
26. Write the name of the prism given below.



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27. Write the name of the prism given below.

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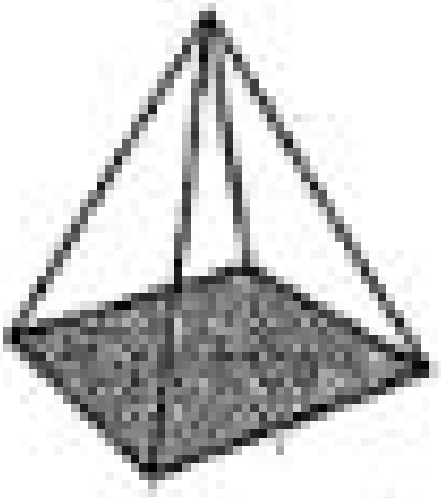
28. Write the names of the pyramids given below.



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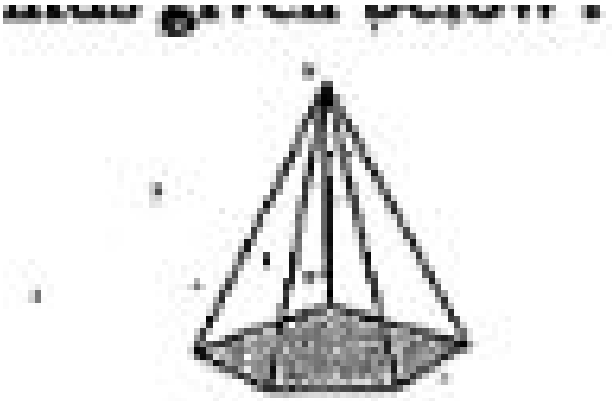
29. Write the names of the pyramids given



below.

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30. Write the names of the pyramids given

below.

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31. Fill the table.

Number of sides of base of Prism / pyramid	Name of the prism	Name of the pyramid
3 sides		
4 sides		
5 sides		
6 sides		
8 sides		

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32. Explain the difference between prism and pyramid.

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33. If the number of sides of a polygonal base of a regular pyramid are infinitely increased what would be the shape of the pyramid?

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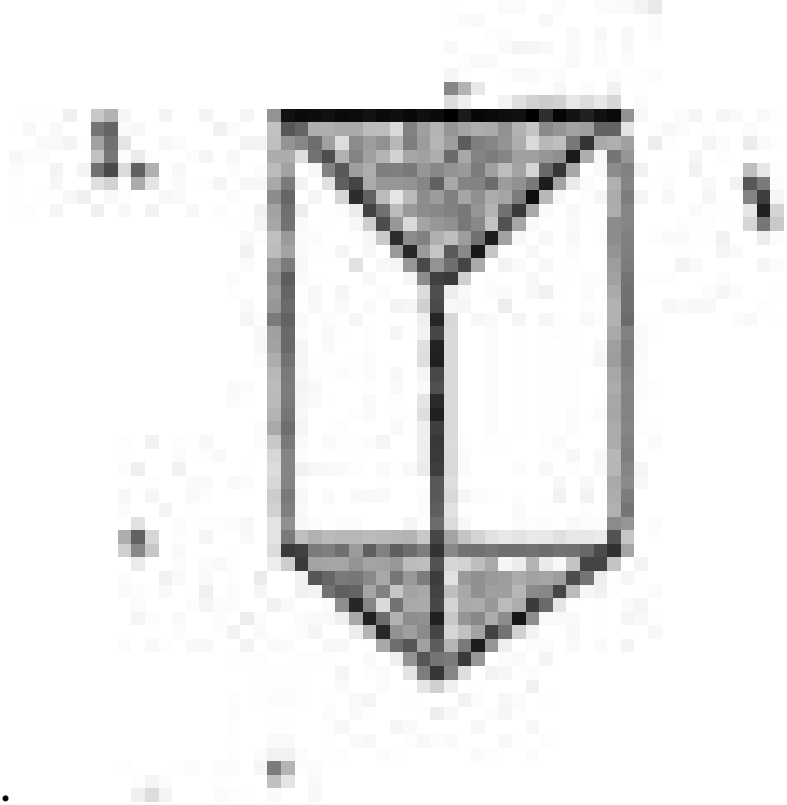
34. Count the number of faces, vertices and edges of given polyhedra and verify Euler's



formula.

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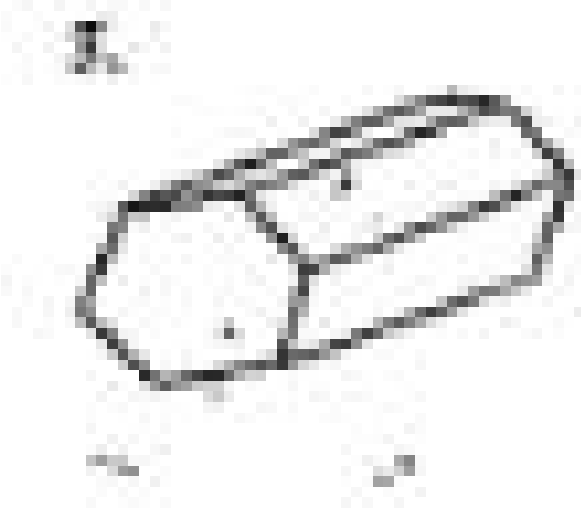
35. Count the number of faces, vertices and edges of given polyhedra and verify Euler's

2.

formula.

Watch Video Solution

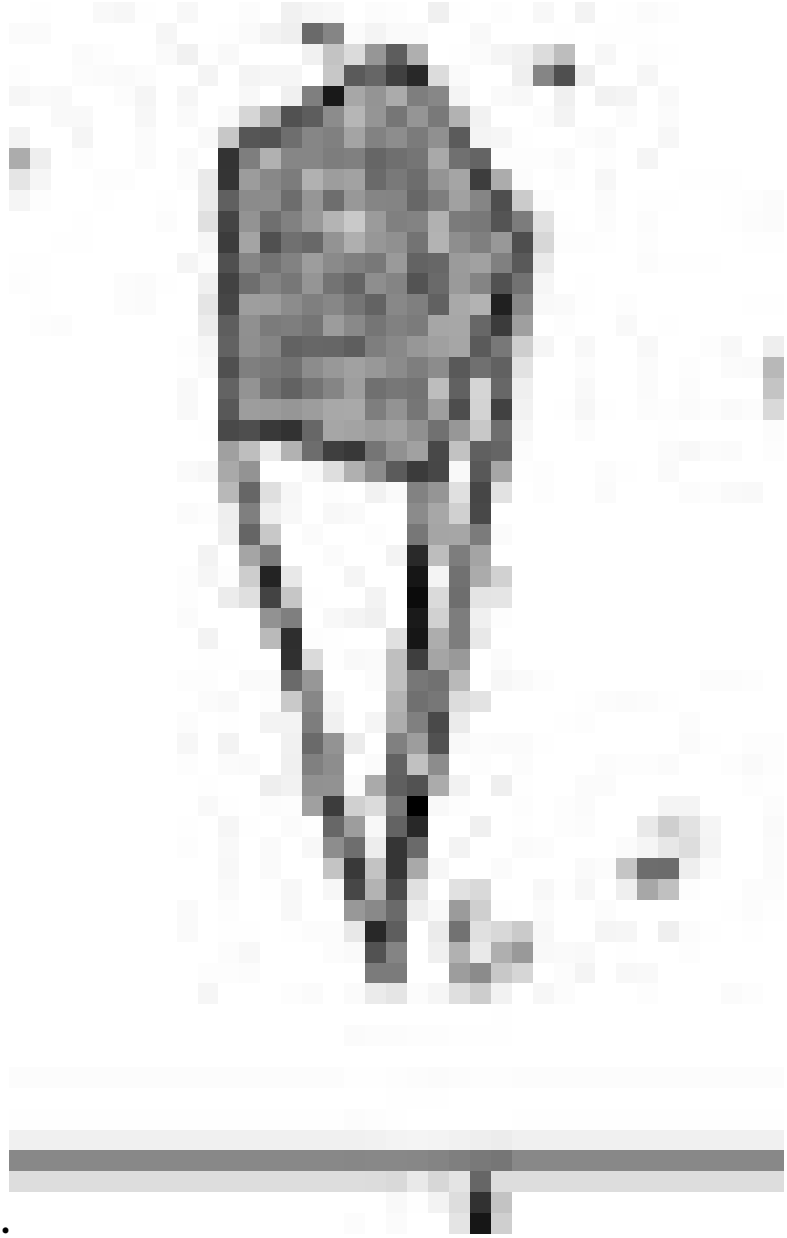
36. Count the number of faces, vertices and edges of given polyhedra and verify Euler's



formula.

Watch Video Solution

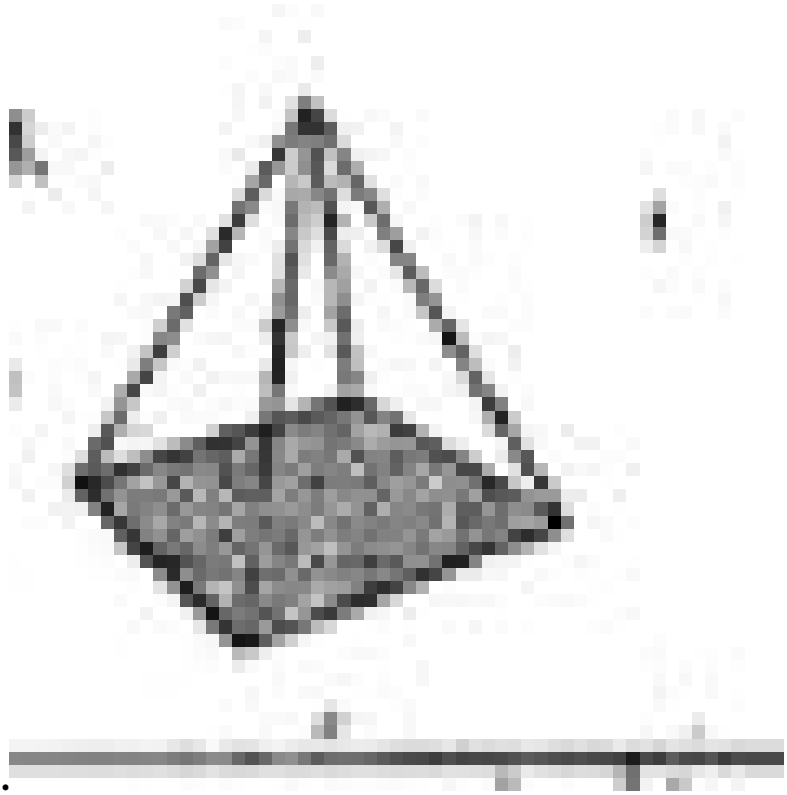
37. Count the number of faces, vertices and edges of given polyhedra and verify Euler's



formula.

Watch Video Solution

38. Count the number of faces, vertices and edges of given polyhedra and verify Euler's formula.



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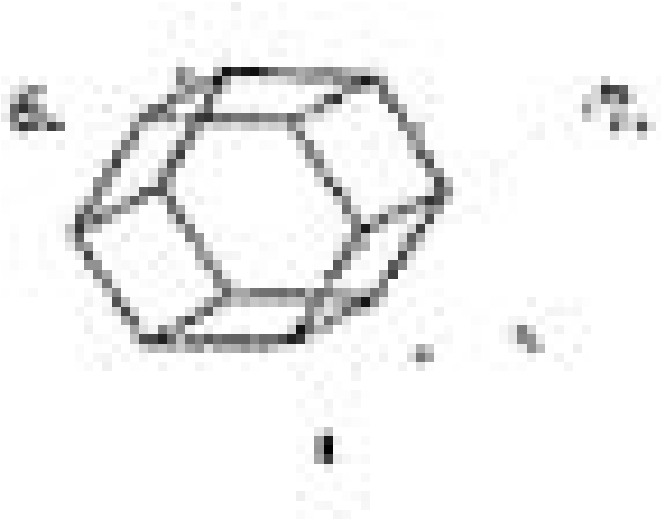
39. Count the number of faces, vertices and edges of given polyhedra and verify Euler's



formula.

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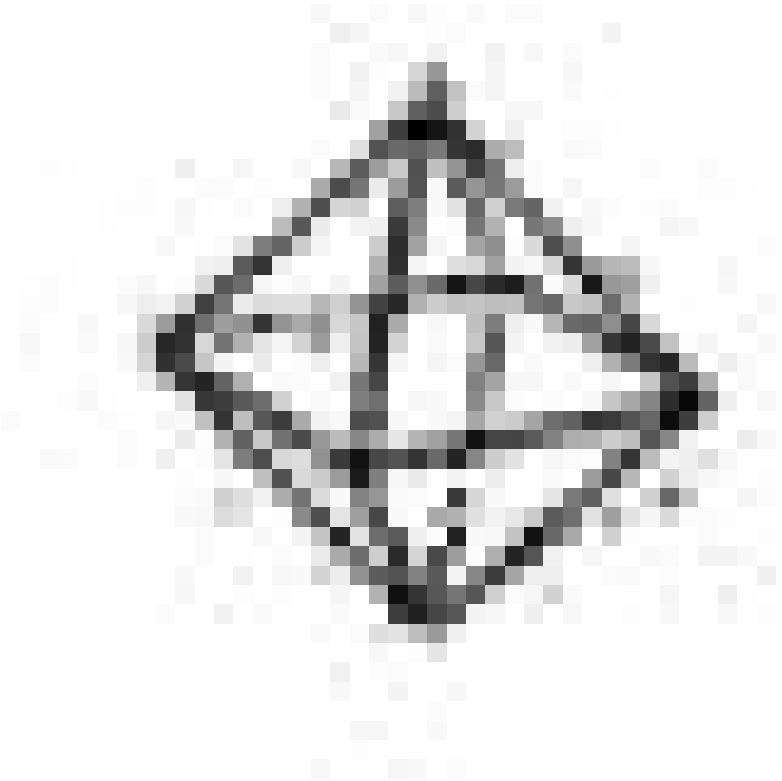
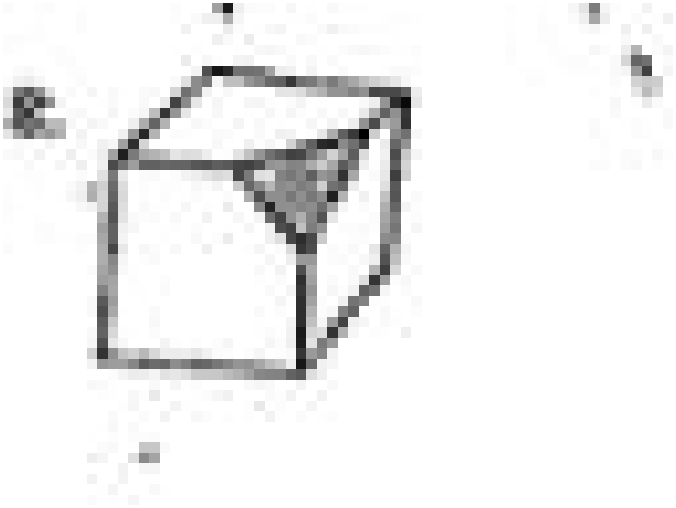
40. Count the number of faces, vertices and edges of given polyhedra and verify Euler's



formula.

Watch Video Solution

41. Count the number of faces, vertices and edges of given polyhedra and verify Euler's



formula.

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42. Is a square prism and cube are same? Explain.

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43. Can a polyhedra have 3 triangular faces only? Explain.

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44. Can a polyhedra have 4 triangular faces only? Explain.

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45. Complete the table by using Euler's formula.

F	8	5	?
V	6	?	12
E	?	9	30

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46. Can a polyhedra have 10 faces, 20 edges and 15 vertices?

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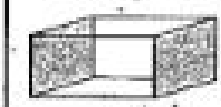
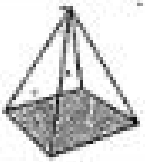
47. Complete the following table.

Object	No. of vertices	No. of edges
		
		
		

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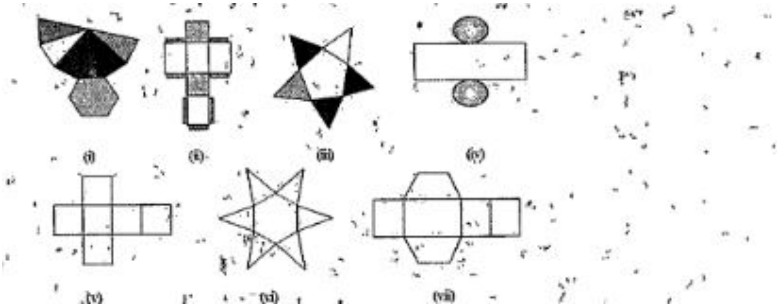
48. Name the 3-D objects or shapes that can be formed from the following nets.



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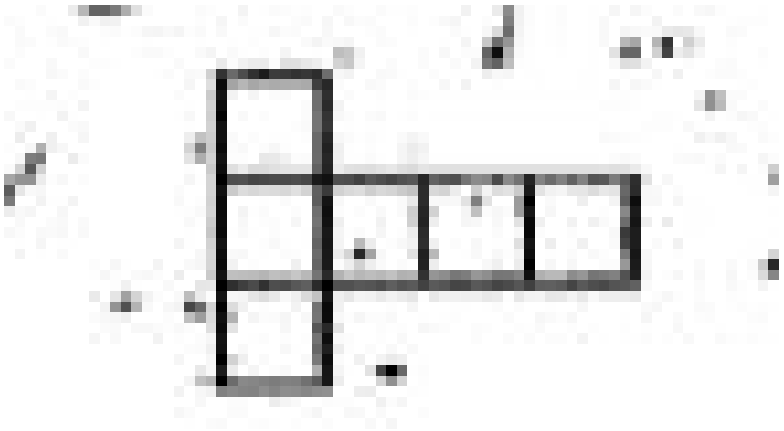
49. Draw the following diagram on the check ruled book and find out which of the following

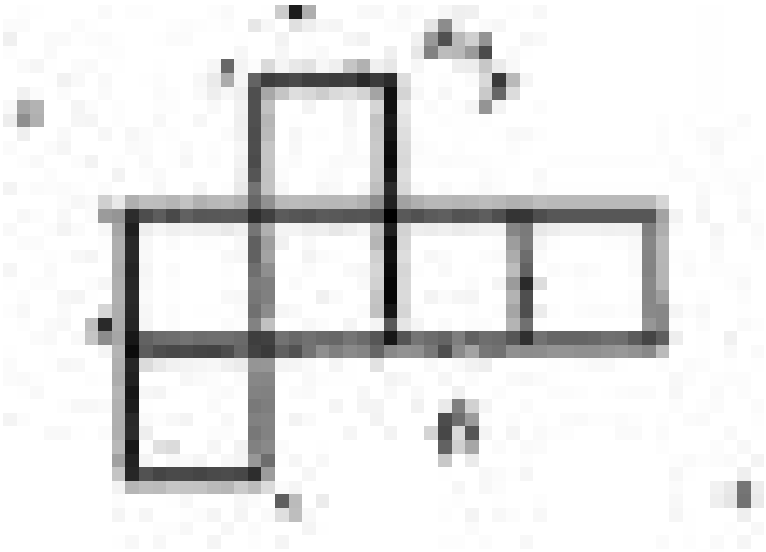
diagrams makes cube :



Watch Video Solution

50. Draw the following diagram on the check ruled book and find out which of the following

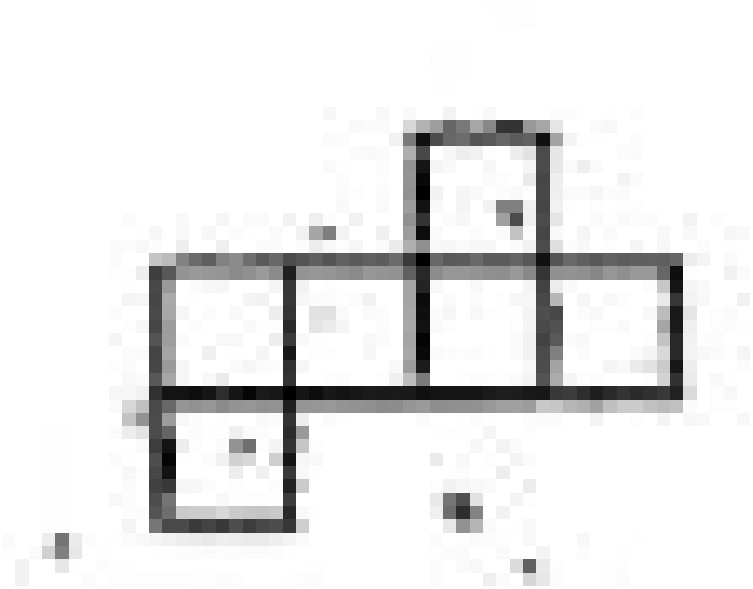
diagrams makes cube :



Watch Video Solution

51. Draw the following diagram on the check ruled book and find out which of the following

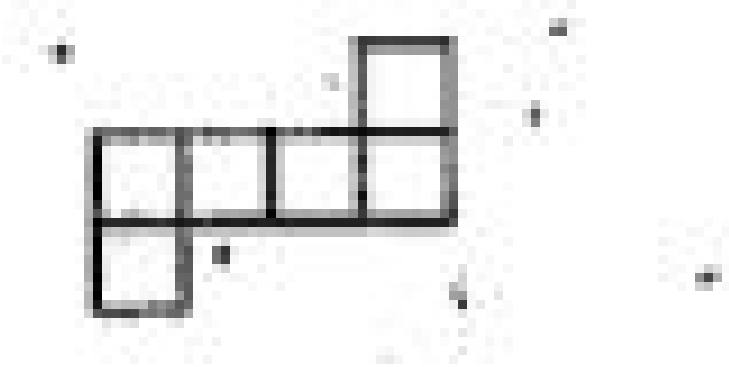
diagrams makes cube :



Watch Video Solution

52. Draw the following diagram on the check ruled book and find out which of the following

diagrams makes cube :



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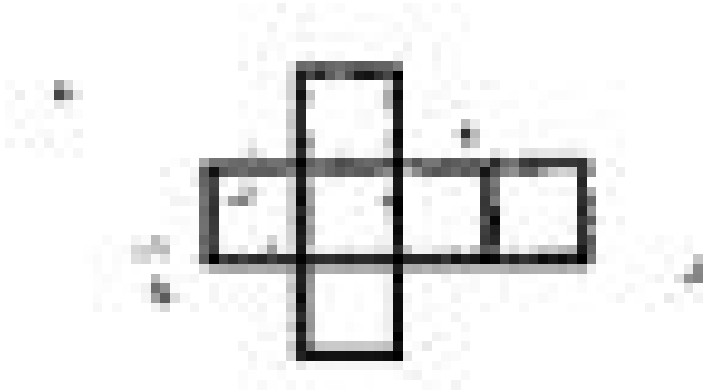
53. Draw the following diagram on the check ruled book and find out which of the following

diagrams makes cube :



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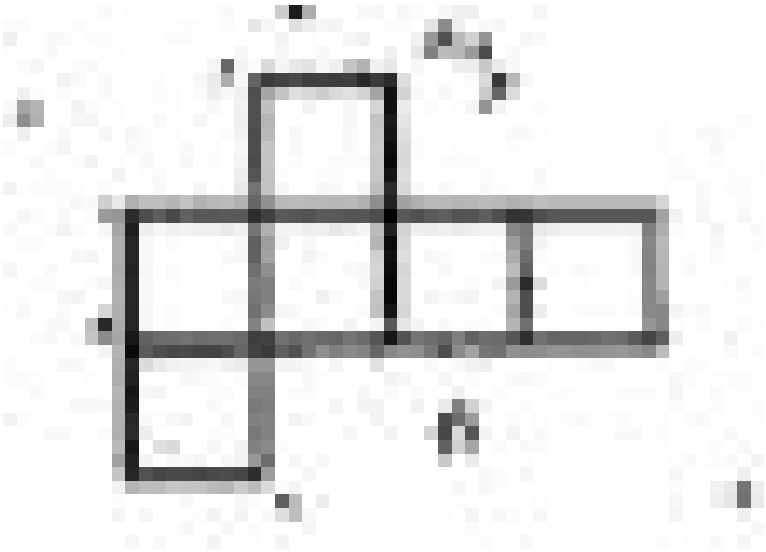
54. Draw the following diagram on the check ruled book and find out which of the following

diagrams makes cube :



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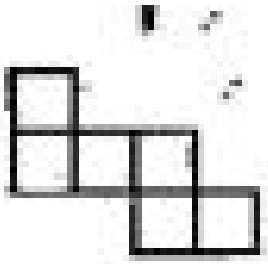
55. Draw the following diagram on the check ruled book and find out which of the following

diagrams makes cube :



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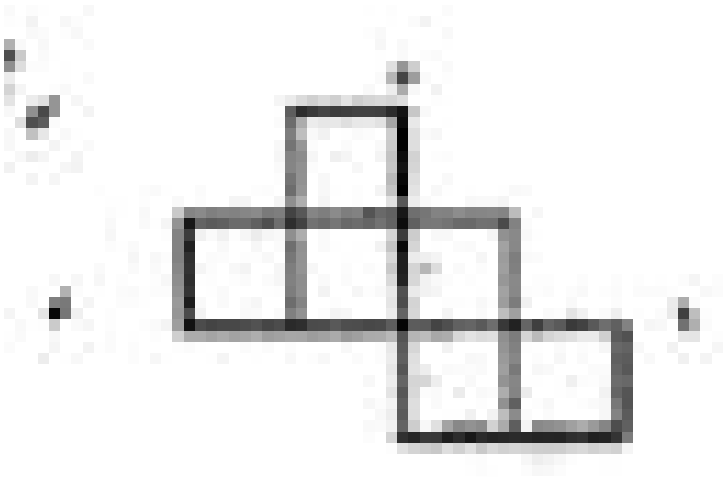
56. Draw the following diagram on the check ruled book and find out which of the following

diagrams makes cube :



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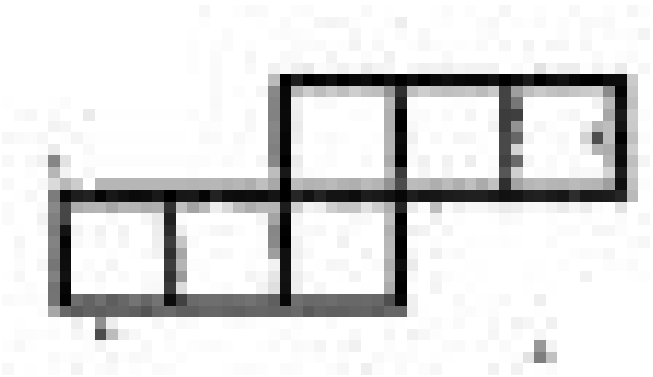
57. Draw the following diagram on the check ruled book and find out which of the following

diagrams makes cube :



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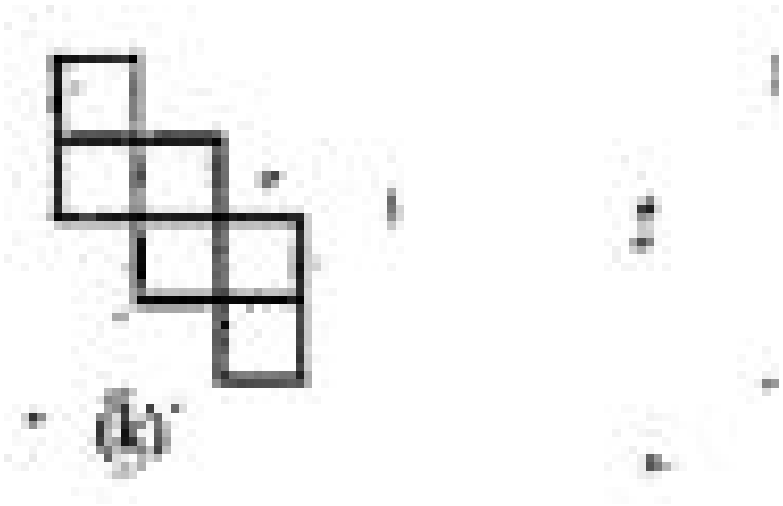
58. Draw the following diagram on the check ruled book and find out which of the following

diagrams makes cube :



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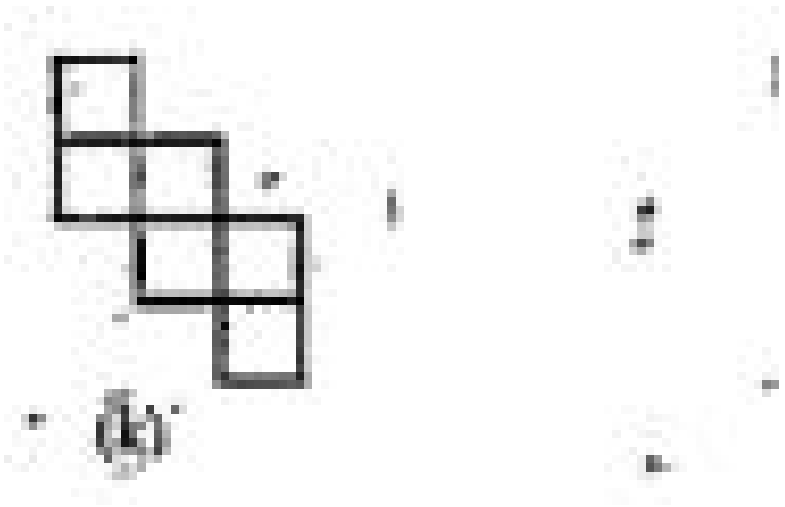
59. Draw the following diagram on the check ruled book and find out which of the following

diagrams makes cube :



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60. Name the polyhedron which has four vertices, four faces.

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61. Name the solid object which has no vertex.

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62. Name the polyhedron which has 12 edges.

Watch Video Solution

63. Name the solid object which has one surface.

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64. How a cube is different from cuboid?

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65. Name the two shapes which have the same number of edges, vertices and faces.

 Watch Video Solution

66. Name the polyhedron which has 5 vertices and 5 faces.

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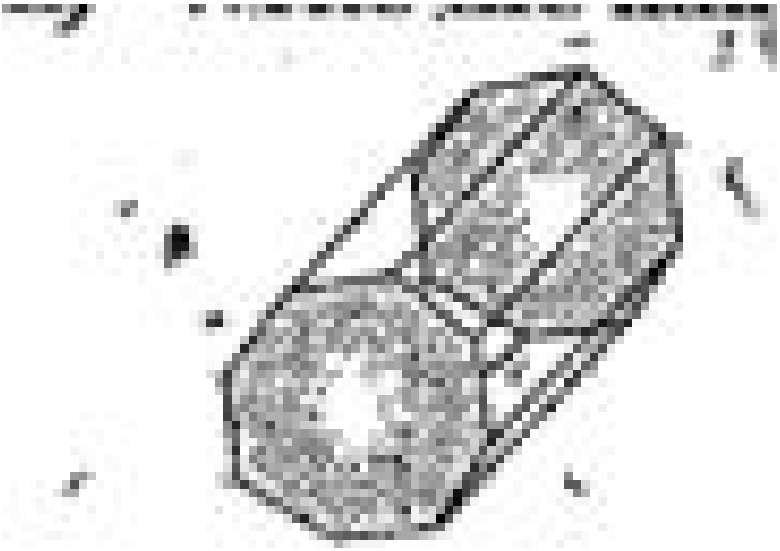
67. Write the names of the objects given



below.

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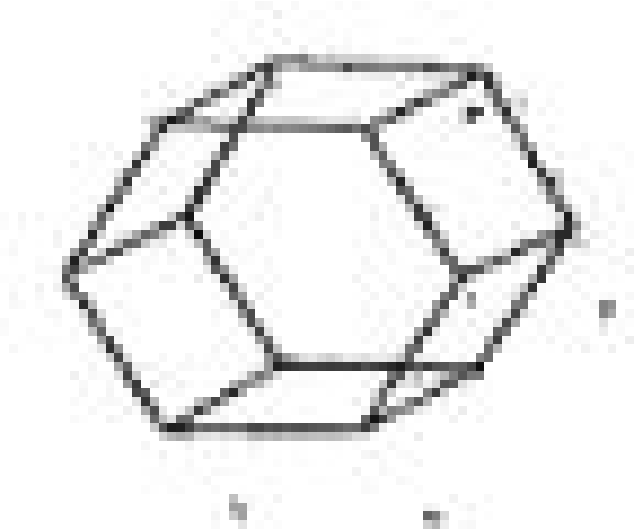
68. Write the names of the objects given



below.

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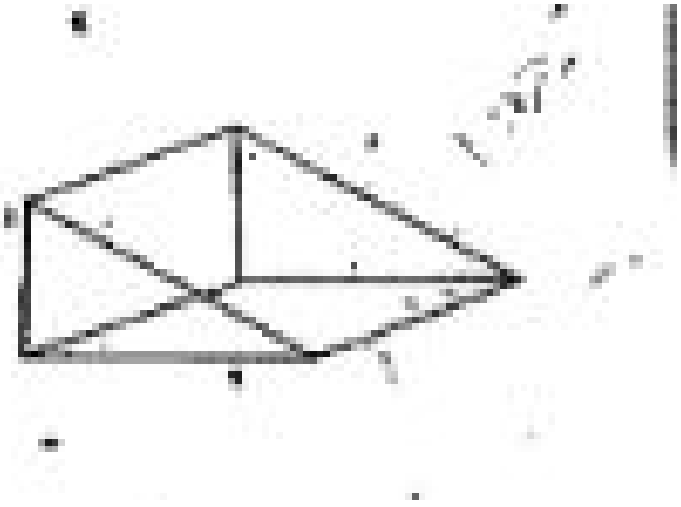
69. Write the names of the objects given



below.

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70. Write the names of the objects given

below.

Watch Video Solution

71. Which of the following is a 3-D object?

A. Square

B. Rectangle

C. Cone

D. Triangle

Answer:

Watch Video Solution

72. Which of the following is a 2-D figure?

A. A.) Cube

B. B.) Cuboid

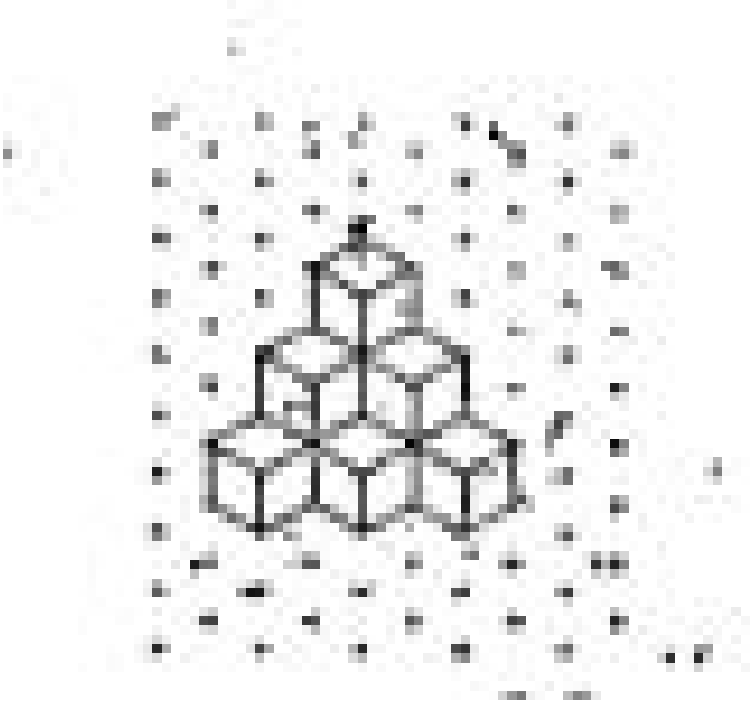
C. C.) Cylinder

D. D.) Rectangle

Answer:

Watch Video Solution

73. No. of cubes of the given figure



A. 16

B. 14

C. 12

D. 10

Answer:

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74. Number of faces of pyramid.....

A. 4

B. 5

C. 3

D. 6

Answer:

Watch Video Solution

75. A polyhedron has _____minimum no. of faces.

A. 1

B. 2

C. 3

D. 4

Answer:

Watch Video Solution

76. Number of edges of a cuboid is .....

A. 6

B. 10

C. 8

D. 12

Answer:

Watch Video Solution

77. No. of vertices of a cube are

A. 4

B. 8

C. 6

D. 12

Answer:

Watch Video Solution

78. No. of faces of a triangular pyramid

A. 4

B. 6

C. 8

D. 2

Answer:

Watch Video Solution

79. A hexagonal pyramid has ___faces.

A. 4

B. 5

C. 6

D. 8

Answer:

Watch Video Solution

80. Which of the following is an Euler's law?"

A. F+V=E+2

B. E+V=E-2

C. F-E=V-2

D. F+E=V-2

Answer:

Watch Video Solution

81. The shape of a liquid depends on the shape of -

A. Base

B. Cone

C. Vertex

D. Number

Answer:

Watch Video Solution

82. No. of faces of a pentagonal pyramid are____

A. 6

B. 5

C. 4

D. 9

Answer:

Watch Video Solution

83. The Euler's relation among no. of faces, vertices and edges is____

A. E+V=E

B. F+V=E+2

C. F-V=E

D. F-V=E-2

Answer:

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84. If the number of sides of a polygonal base of a regular pyramid are infinitely increased what would be the shape of the pyramid?

A. Cylinder

B. Cone

C. Prism

D. None

Answer:

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85. Identify 3-D Object from the following.

A. Sphere

B. Circle

C. Paper

D. None

Answer:

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86. A polygon with 4 sides is called____

A. Triangle

B. Quadrilateral

C. Pentagori

D. Sexagon

Answer:

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87. Number of edges of a cuboid is .....

A. 11

B. 10

C. 6

D. None

Answer:

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88. An object with more number of faces is___

A. Circle

B. Paper

C. Square

D. Sphere

Answer:

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89. A Die is an example of ____

A. A.) Triangle

B. B.) Cube

C. C.) Sphere

D. D.) Pyramid

Answer:

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90. Plasma T.V. is an example of ____

A. Sphere

B. Rectangle

C. Triangle

D. Cuboid

Answer:

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91. Kite is an example of _____ object.

A. A.) Two Dimensional

B. B.) Three Dimensional

C. C.) Prism

D. D.) Sphere

Answer:

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92. In a cube F+V=_____

A. 14

B. 16

C. 19

D. 20

Answer:

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93. In a Pentagonal Pyramid E + 2 =____

A. 6

B. 9

C. 18

D. 12

Answer:

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