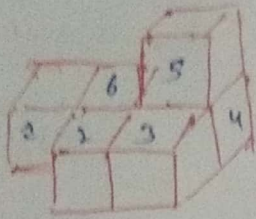


Q1. count the number of cubes in each of the following figures.

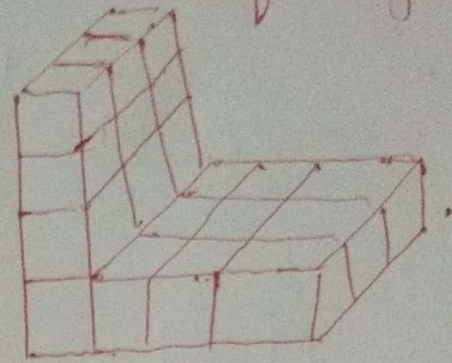
EXIS-3.

(i)



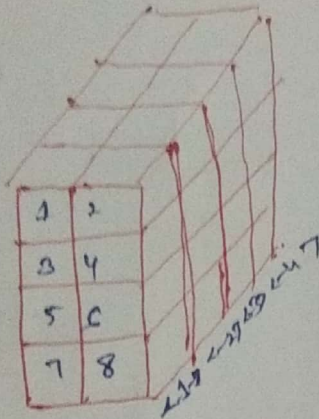
Ans: (i) 9

(ii)



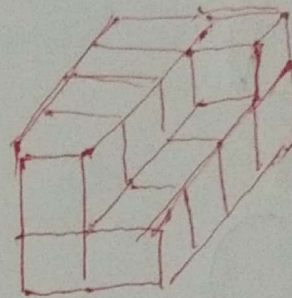
Ans: (ii) 26

(iii)



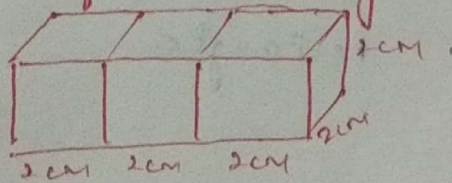
Ans (iii) 19

(iv)



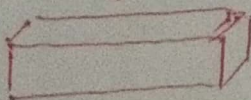
Ans (iv) 26

Q2. If three cubes of dimensions $2\text{cm} \times 2\text{cm} \times 2\text{cm}$ are placed side by side what would be the dimensions of resulting cuboid?

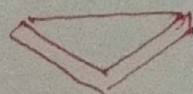


Ans: - length = $2 + 2 + 2 = 6\text{cm}$.
breadth = 2cm .
height = 2cm .

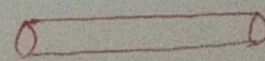
Q3. If we throw light on the following solids from the top name the shape of shadow obtained in each case and also give a rough sketch of the shadow.



(i) DVD Player

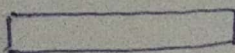


Sandwich.

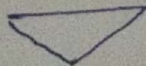


(iii) straw

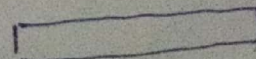
Ans: -



(i) Rectangle



(ii) Triangle



(iii) Rectangle.

Q4 - what cross-sections do you get when you given a
 (i) vertical cut - (ii) Horizontal cut to following
 solids.

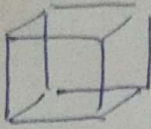
- (a) die (b) square Pyramid (c) A round melon.
 (d) A circular Pipe (e) A brick (f) An ice-cream cone.

Ans:

Vertical
cut

Horizontal
cut

DIE



square

square.

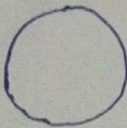
square
Pyramid



Triangle

square

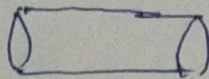
A round
melon.



circle

circle

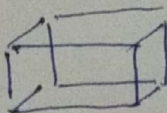
A circular
Pipe



Rectangular

circle

A brick



Rectangle

Rectangle.

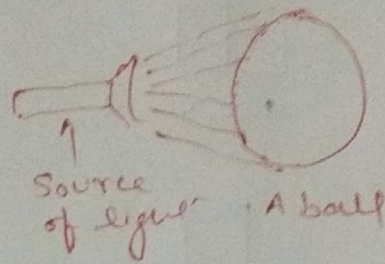
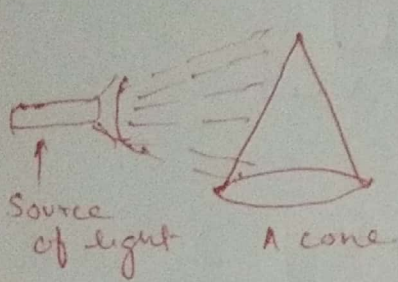
An Icecream
cone



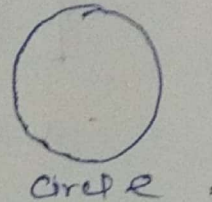
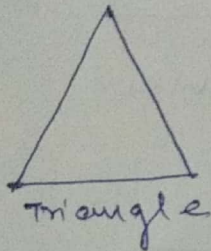
Triangle

circle

Q5:- If we throw light on following solids, from left name the shape of shadow in each and also give a rough sketch of the shadow.

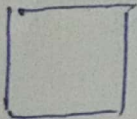


Ans:-



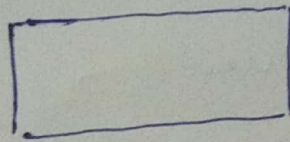
Q6:- Here are the shadows of some 3-D objects, when seen under the lamp of an overhead projector. Identify the solids that match each shadow.

Ans:-



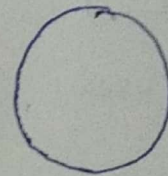
(I)

Dice, Chalkbox



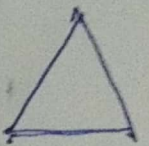
(II)

Book, Mobile, DVD Player



(III)

cricket ball.

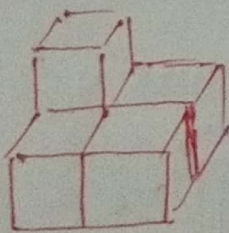


(iv)

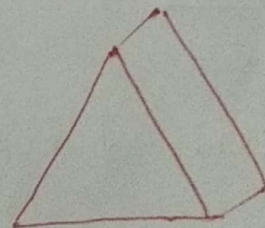
Birthday cap.

Q7:-

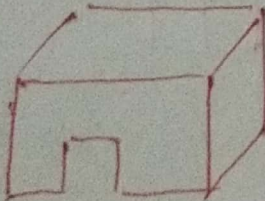
(i)



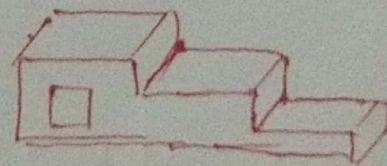
(ii)



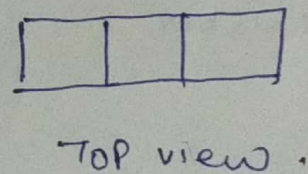
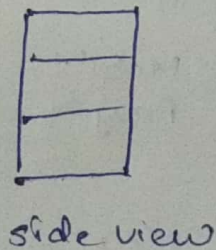
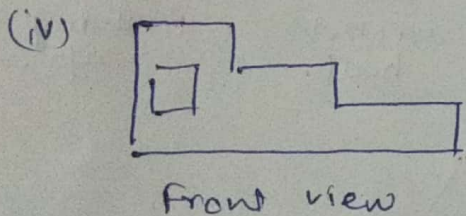
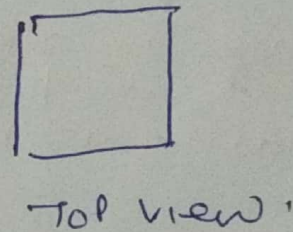
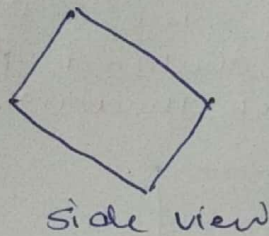
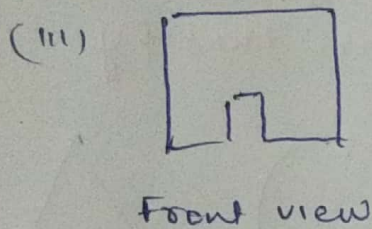
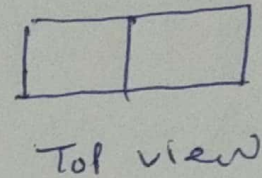
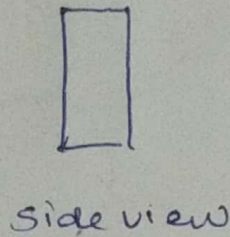
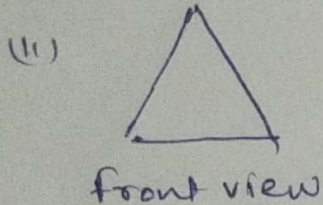
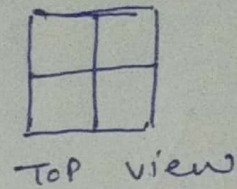
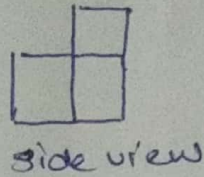
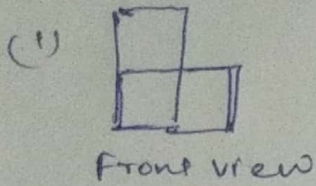
(iii)



(iv)

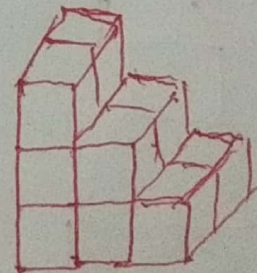


Ans 7:-



Q8:- (i) The number of cubes in given structure is ?

- (a) 12
- (b) 10
- (c) 9
- (d) 8



Ans:- (i) (a) 12

(ii) The number of unit cubes to be added in above student to make a cuboid of dimensions 4 unit x 2 unit x 3 unit.

Ans:- (ii) (b) 12

(iii) What cross section is made by vertical cut in cuboid,

- (a) square (b) rectangle (c) circle (d) Triangle.

Ans:- (b) rectangle.

(iv) What cross section is made by horizontal cut in a cone.

- (a) Triangle (b) circle (c) square (d) rectangle.

Ans:- (b) circle.

(Q) which solid cast a shadow of triangle under effect of light~

(a) sphere (b) cylinder (c) cone (d) cube

Ans: - (c) cone