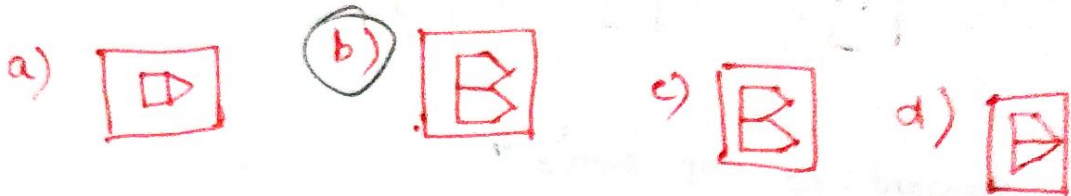


Embedded Image



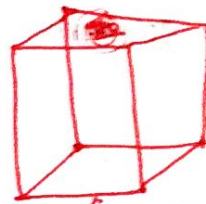
Cubes and Dice

Cubes

Faces - 6

Corners - 8

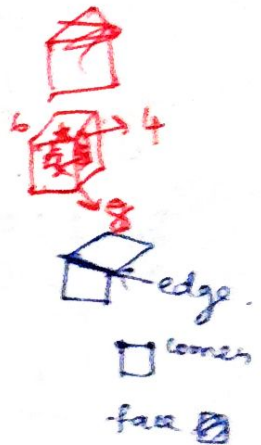
Edges - 12



$\Rightarrow 7$

$$2 + \textcircled{2} = 7$$

5



Dice

→ 1) Standard dice (play)



Sum of opposite faces
is equal to 7

opp.
1 $\rightarrow$ 6 = 7
3 $\rightarrow$ 4 = 7
2 $\rightarrow$ 5 = 7
 $\Rightarrow$ 7

2) Non standard or General dice.

Sum of
(Adjacent face
= 7)

In exam qstn $\rightarrow$

Standard.



General



General



Standard.



General



Standard

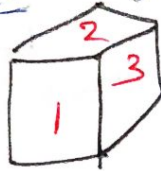


Standard $\Rightarrow$ opp. sum = 7

General $\Rightarrow$ ^{any two} Near or adj. sum = 7

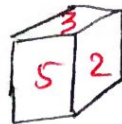
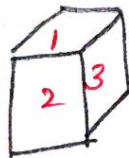
Types of questions

Type 1: only one diagram

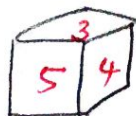
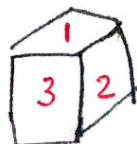


(what no. is opp. of 2, 3 or 1)

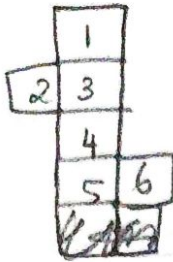
Type 2: Two diag. (what no. is opp. of 3 or any)



Type 3:

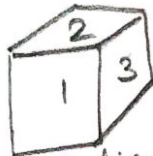


Type 4 (Separate all layer by cutting)
(fold)



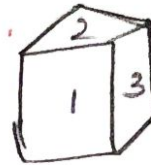
Example 1. (Typ 1)

1) opposite to 3?



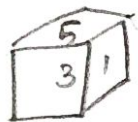
Standard dice $\Rightarrow 4 + 3 = 7$
Ans = 4

2) opposite to 5?



Standard = $2 + 3 = 7$
Ans = 5

3) Bottom surface number?

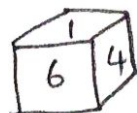


Standard = $5 + 2 = 7$
Ans = 2

Example 2:

1) opp to 4?

General.



(whatever it will be)

a) 2/6/5

d) a) 2

b) 2/5/1

b) 3

c) 2/3/5

(or) c) 5

d) 1/6/5

d) Cannot be determined.

Type 2: (3 modules)

M-1)



(No numbers)
(Not common in both diagrams)
→ No common number

M-2)



→ One number same

M-3)



→ Two number same in two diag.