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Reasoning (Zero to Hero)



DICE ✓ 41211
60 + questions
Type

seconds



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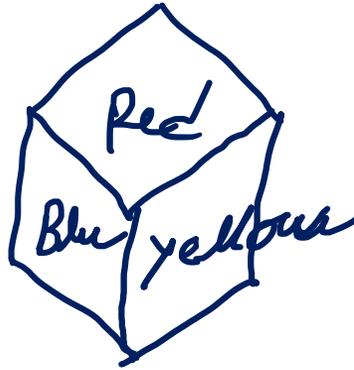
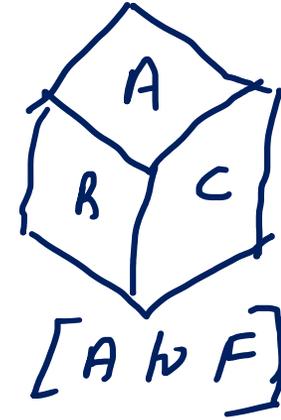
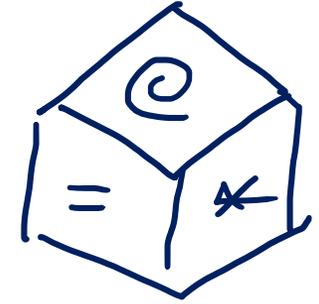
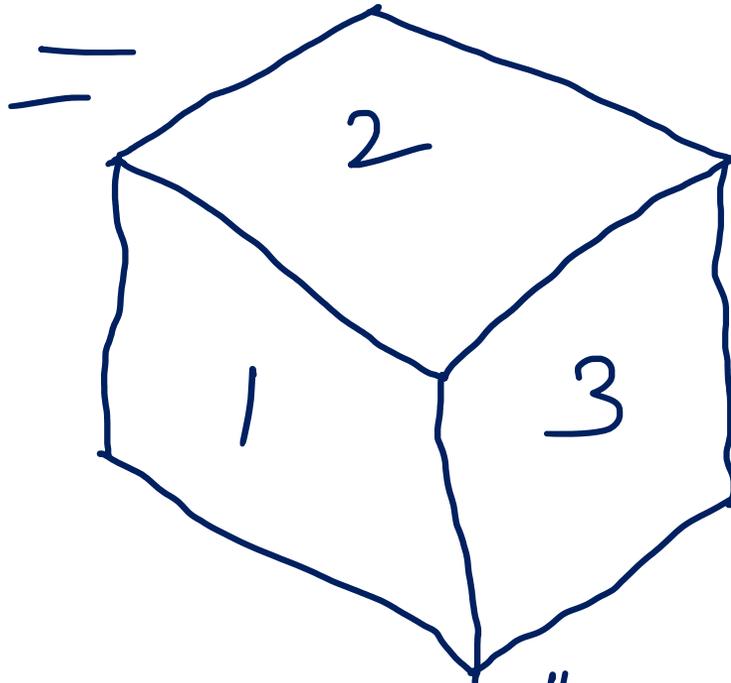
DICE

⑥ 1 to 6

सतह (Surface) = 6

फिरास = 3 [1, 2, 3]

फिरास = 3 [4, 5, 6]



1	↻	opp. -	4	↻	opp. =
2	↻	-	5	↻	=
3	↻	-	6	↻	=

TYPE

CASE-I [One Figure]

CASE-II [Two Fig] — [No common
One common
Two common]

CASE-III [More than two fig.]

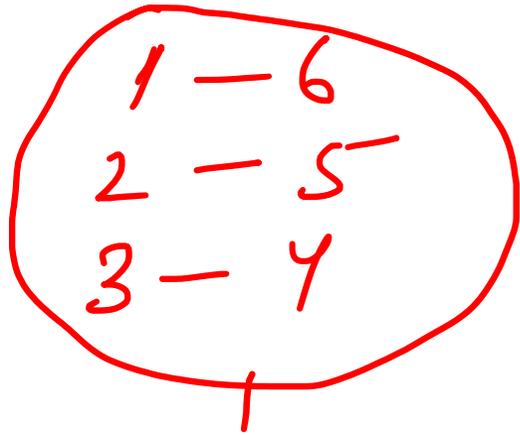
CASE-IV [open dice]

CASE-V [Language based]

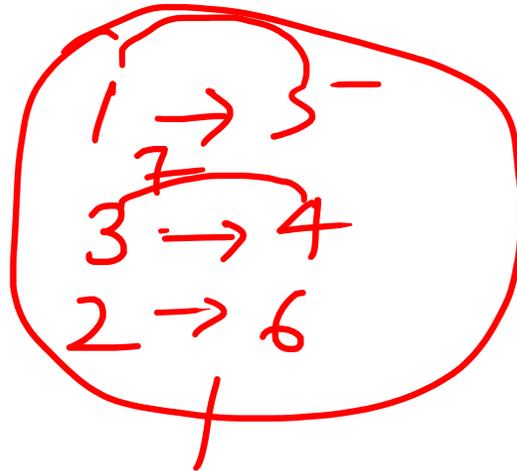
DICE



General dice
अगर पास (dice) standard dice नहीं है तो वह
General dice होगा।



standard dice



General dice



General dice

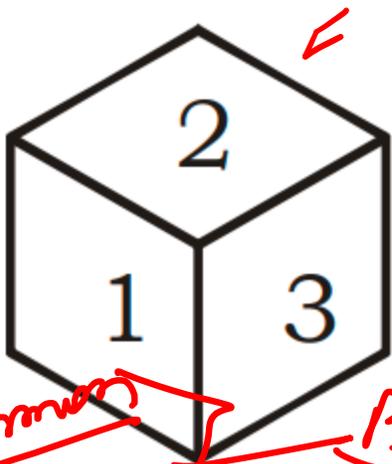
↓
अगल-बगल के
दो सभ्य का योग = 07 होगा।



Case-1 (When only 01 Fig is Given)

Q.1 If this is a standard dice then what is opposite to 2?

यदि यह एक मानक पासा है तब 2 के विपरीत क्या होगा?



general dice 2 opp. = ?

1/2/3 = 4/5/6

- | | | | | |
|----------|----------|--------|------|------|
| ① | ② | ③ | ④ | ⑤ |
| a) 4 | a) 4 | a) 4 | a) 4 | a) 4 |
| b) 5 | b) 5 | b) 1 | b) 1 | b) 5 |
| c) 6 | c) 4/5/6 | c) CND | c) 2 | c) 6 |
| d) 4/5/6 | d) CND | d) NOT | d) 3 | d) 1 |

2 → 5
7

1 =
2 =
3 =

No common side fully
Ans Fixed not confirm

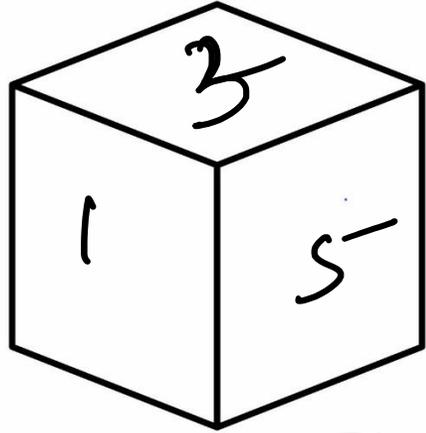
Note:- DICE:- के Singal fig में Opposite decide नहीं कर सकते हैं?

4/5/6 CND/NOT

probably standard die

Q.2

If this is a standard dice then what is opposite to 1?
 यदि यह एक मानक पासा है तब 1 के विपरीत क्या होगा?



$$\underline{1/3/5} = \underline{2/4/6}$$

- ① 2/4/6 ✓
- ② CND ✓
- ③ NOT ✓
- ④ 4, 5, 6

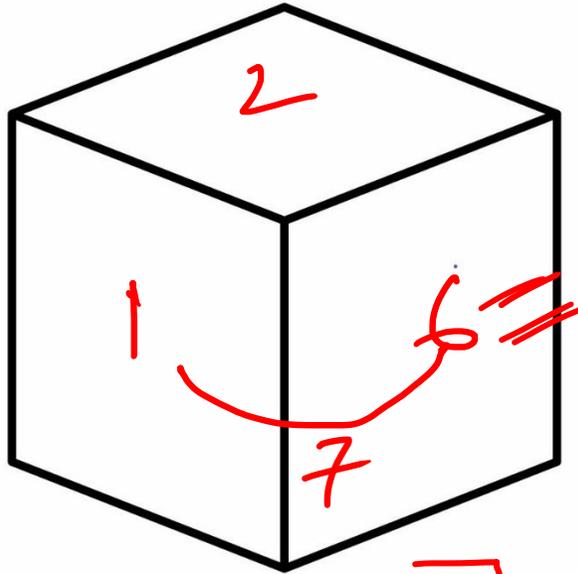
[1 to 6]
 opp. to 1 = ?

- | | | | | |
|---------------------|---------------------|--------|------|------|
| ① | ② | ③ | ④ | ⑤ |
| a) 4 | a) 4 | a) 6 | a) 4 | a) 2 |
| b) 5 | b) 2/4/6 | b) 3 | b) 3 | b) 4 |
| c) 6 | c) CND | c) 5 | c) 5 | c) 6 |
| d) 2/4/6 | d) NOT | d) NOT | d) 1 | d) 1 |

✓ Note:- DICE:- के Singal fig में Opposite decide नहीं कर सकते हैं?

DICE

Q.3 6 के विपरीत क्या है?



[1 to 6]
opp. to 2 = ?

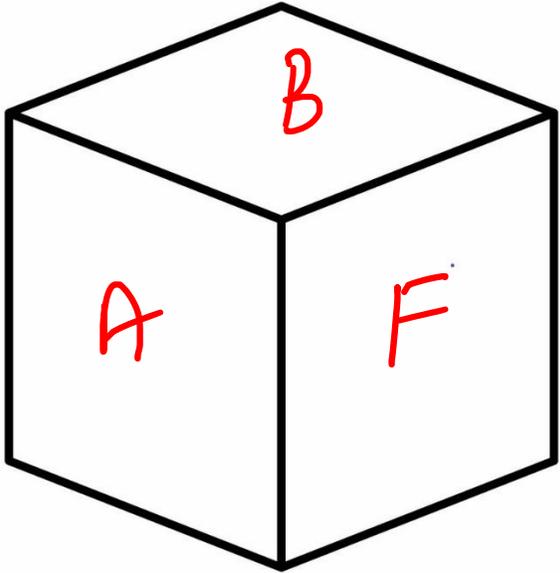
100% = General dice

- 1 - 3/4/5
- 2 - 3/4/5
- 3 - 1/2/6
- 4 - 1/2/6
- 5 - 1/2/6
- 6 - 3/4/5

- | | | |
|------------|--------|--------|
| (1) | (2) | (3) |
| a) 1/6 X | a) 3 | a) 5 ✓ |
| ✓ b) 3/5 ✓ | b) 4 | b) 1 X |
| c) 1/3 X | c) 5 | c) 6 X |
| d) 5/6 X | d) 2 X | d) 2 X |

2 ← 3/4/5
1/2/6 → 3/4/5

Q.4 D के विपरीत क्या है?



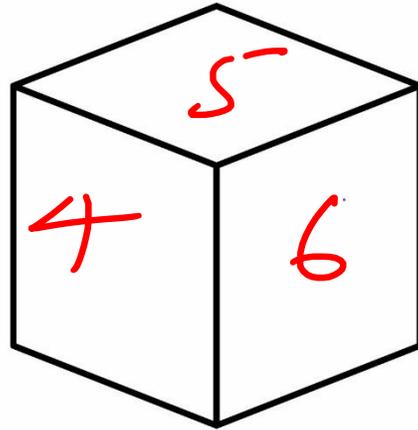
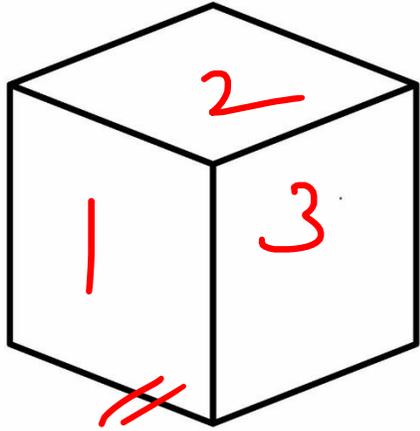
[A to F]

$C \leftrightarrow A/B/F$ / $A/B/F - C/D/E$
 दिए गए दो सतहों के विपरीत होने वाले surface कभी भी एक-दूसरे के opposite नहीं होगा।

- | | | | |
|---------------------|-------------------|-------------------|-------------------|
| ① | ② | ③ | ④ |
| a) A | a) A | a) A | a) A |
| b) B | b) D | b) D | b) D X |
| c) F | c) CND | c) E | c) E X |
| d) A/B/F | d) NOT | d) NOT | d) C X |

Case-II (No common) - 01 Fig की तरह solve होगा

Q.5



No confusion
According option

2 ↔
1/2/3 → 4/5/6

standard dice
2 → 5

a) 4

a) 5

a) 1 ~~X~~

a) 4

b) 5

b) 1 ~~X~~

b) 2 ~~X~~

b) 2 ~~X~~

c) 6

c) 3 ~~X~~

c) 3 ~~X~~

c) 6

~~a) 4/5/6~~

~~d) CND~~

~~d) 4~~

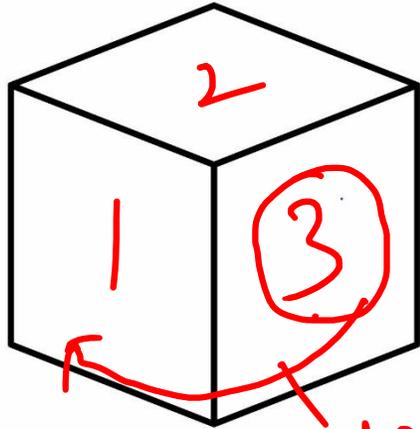
d) 5

(One common)-

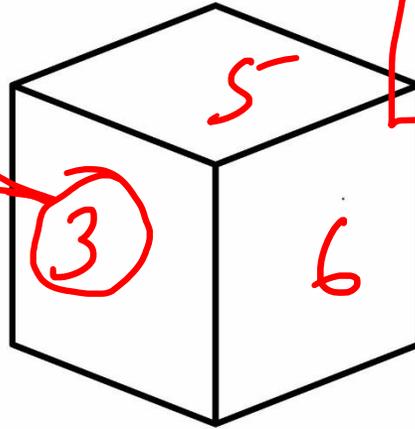
perfect Right

1 to 6

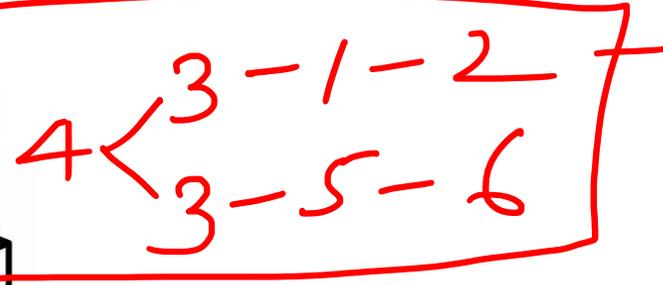
Q.6



(i) clockwise



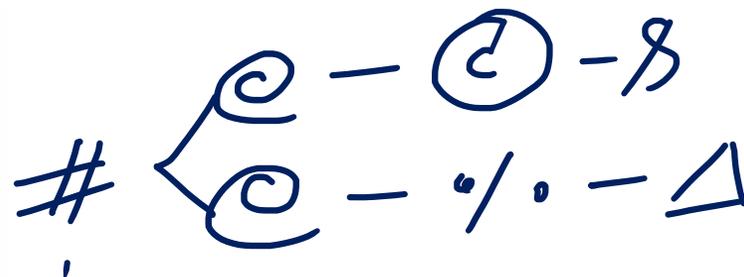
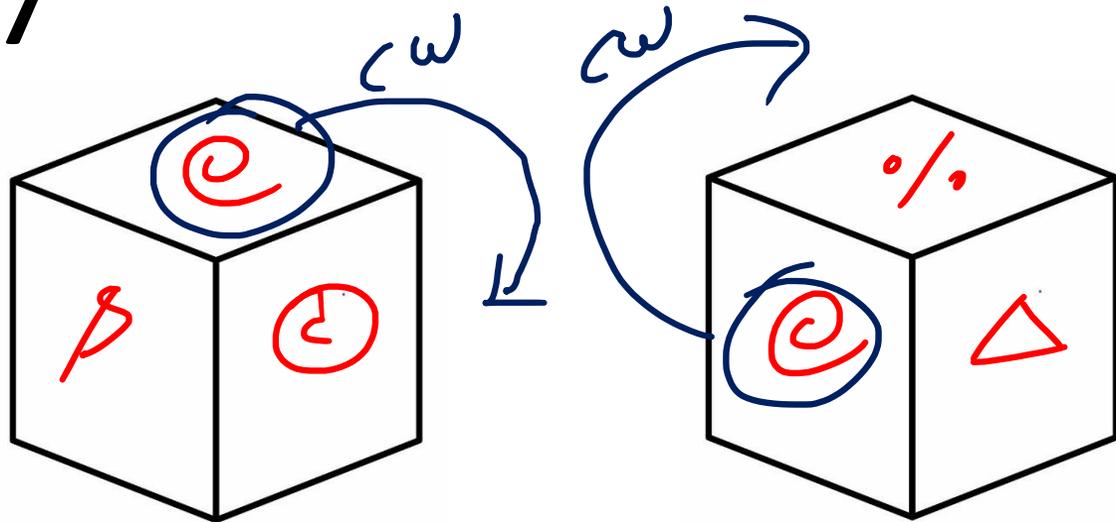
(ii)



one common
Twice

- 1 → 5
- 2 → 6
- 3 → 4

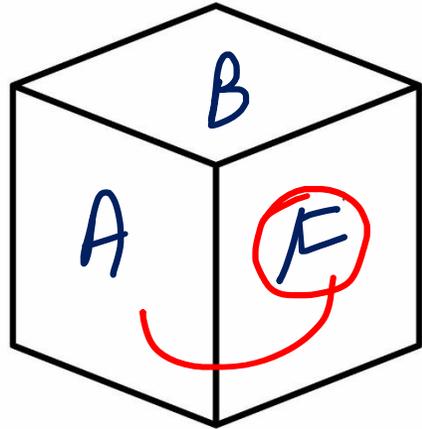
Q.7



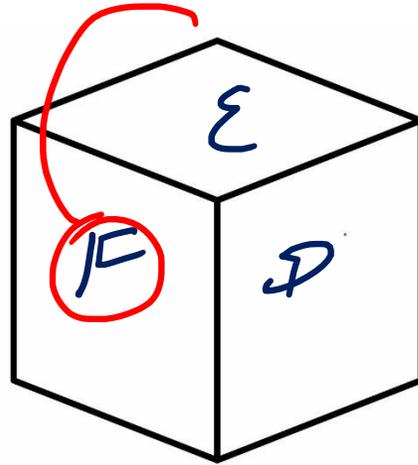
↔ @
=

- (a) @
- (b) β
- (c) ⊕
- (d) CND

Q.8



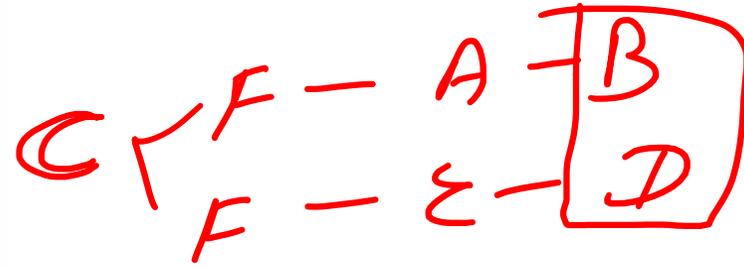
(I)



(II)

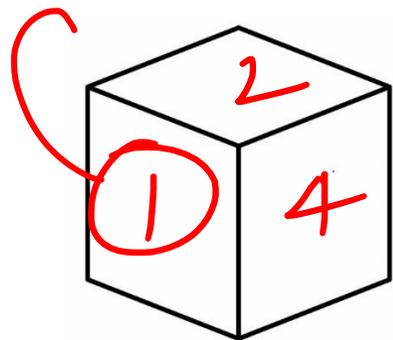
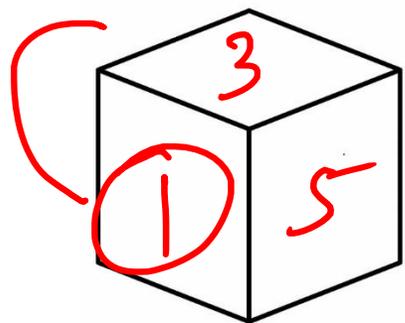
A to F

$B \leftrightarrow D$ ✓



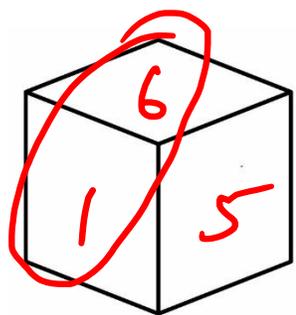
DICE

Q.9

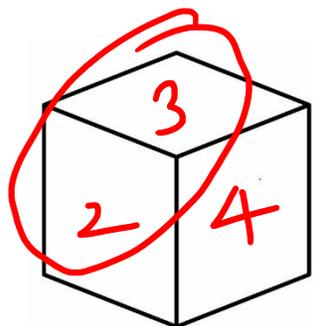


6 { $\frac{1-3-5}{1-2-4}$

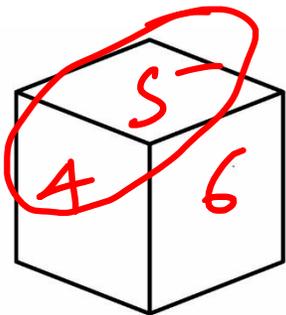
Ans: જે opposite surface કમ જ સહ સમાવે તે સિદ્ધ સહકર છે



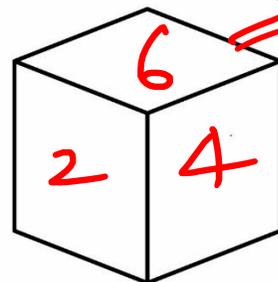
(a) ✗



(b) ✗



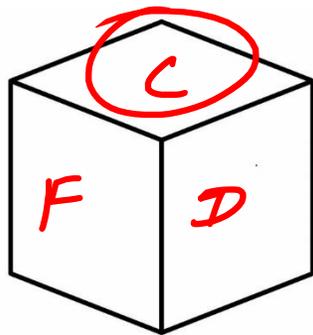
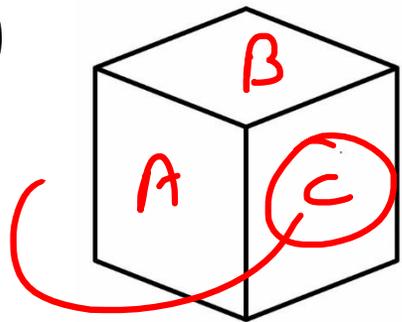
(c) ✗



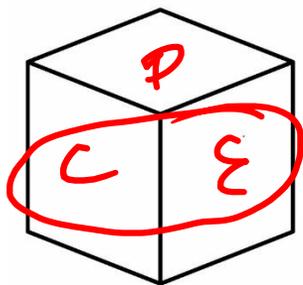
(d) ✓

1/3/5

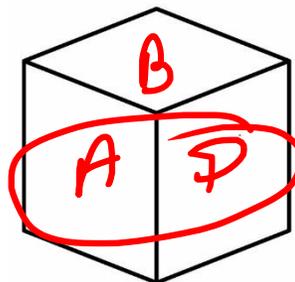
Q.10



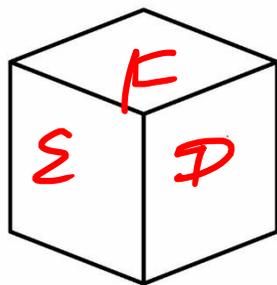
$\varepsilon \begin{cases} C - A - B \\ C - D - F \end{cases}$



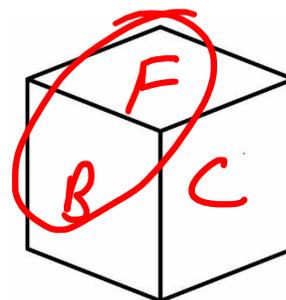
(a) X



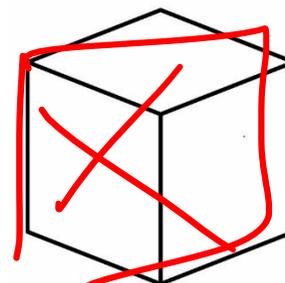
(b) X



(c) ✓



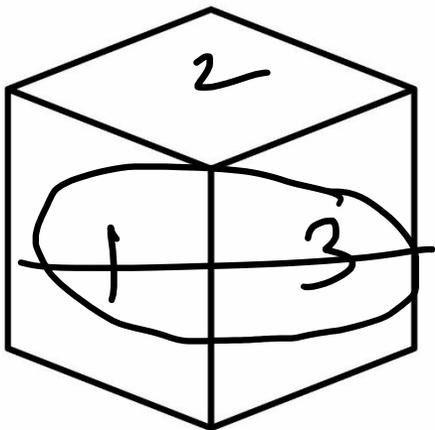
(d) X



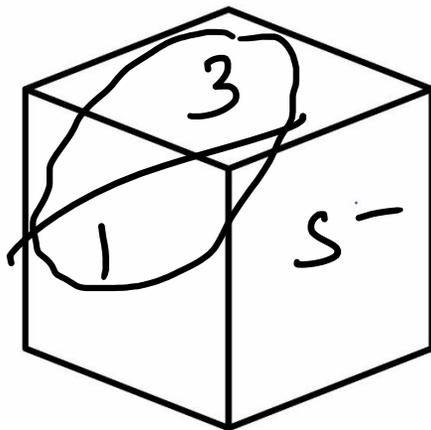
(e)

(Two common)-

Q.11



(1)



(2)

2 - 5

1/3 - 4/6

CASE-II

(1) No common -

(2) One common -

(3) Two common

1 - 4/6

2 - 5

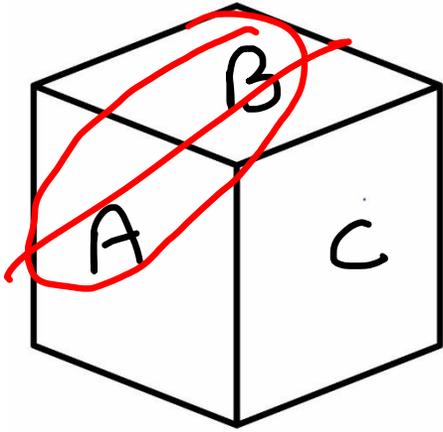
3 - 4/6

4 - 1/3

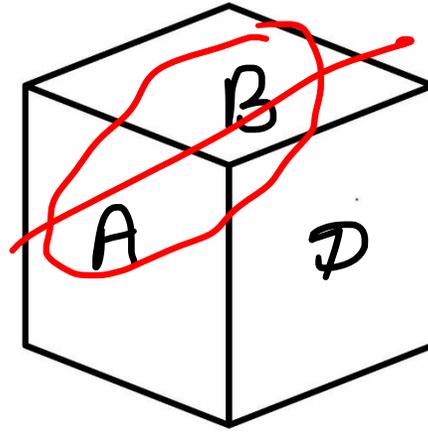
5 - 2

6 - 1/3

Q.12



(1)



(2)

$C - D$
 $A/B - E/F$

$A - E/F$

$B - E/F$

$C - D$

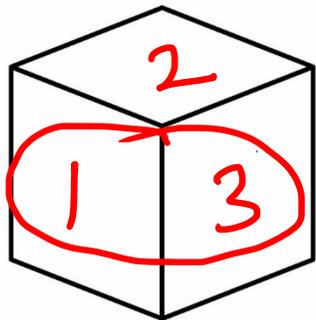
$D - C$

$E - A/B$

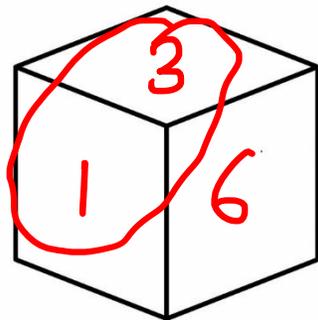
$F - A/B$

✓

Q.13



(1)

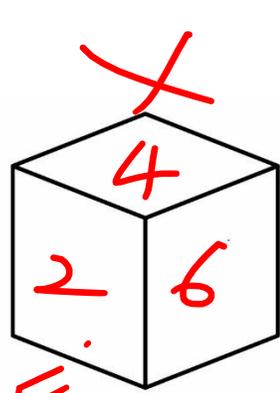


(1)

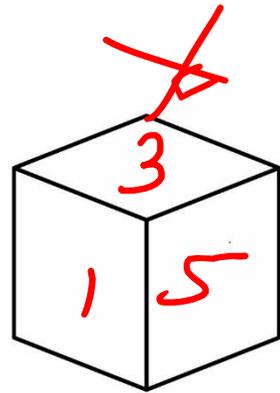
2-6
113-4/5-

Note:

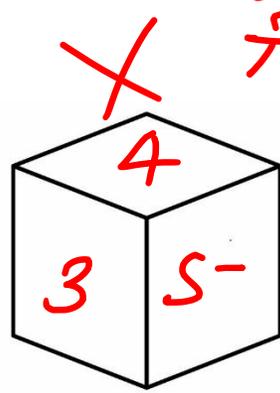
Two opposite surfaces can never be seen and hidden together.
 दो विपरीत सतह न कभी एक साथ
 मिल सकता है न ही एक साथ
 छिप सकता है



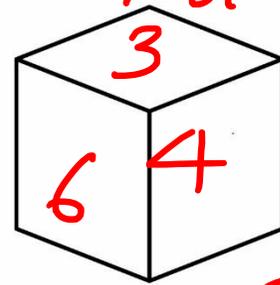
(a)



(b)

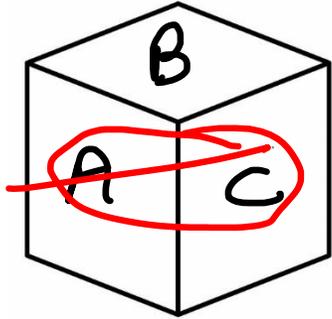


(c)

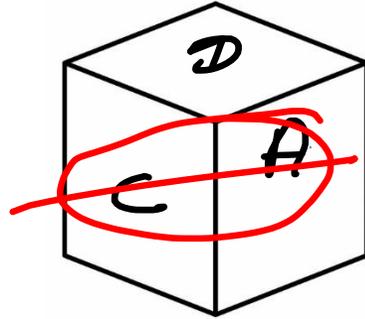


(d)

Q.14

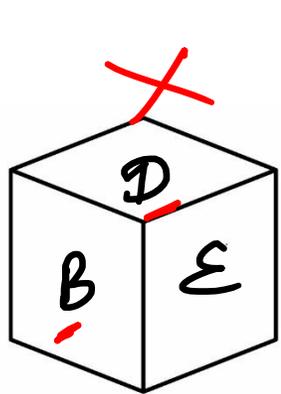


(I)

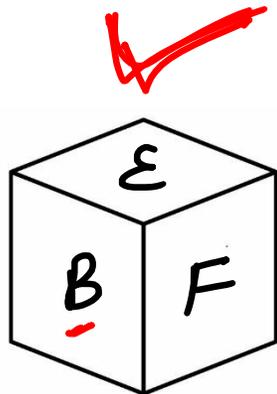


(II)

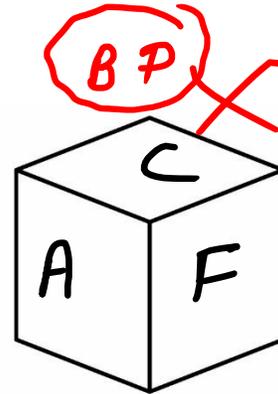
B - D



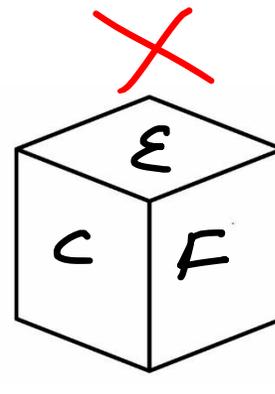
(a)



(b)



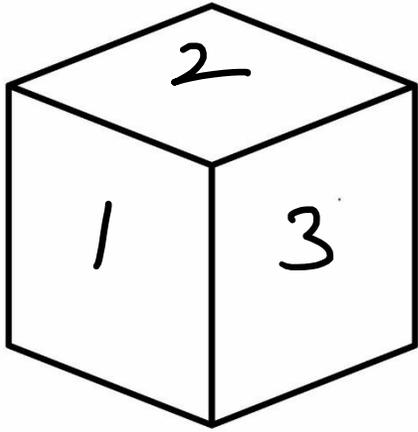
(c)



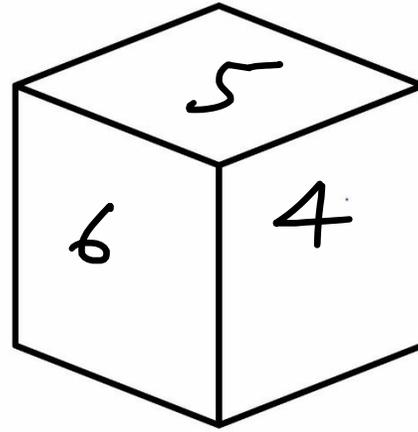
(d)

Q.15

ans. 1 is opp — 4/5/6
↙



(1)

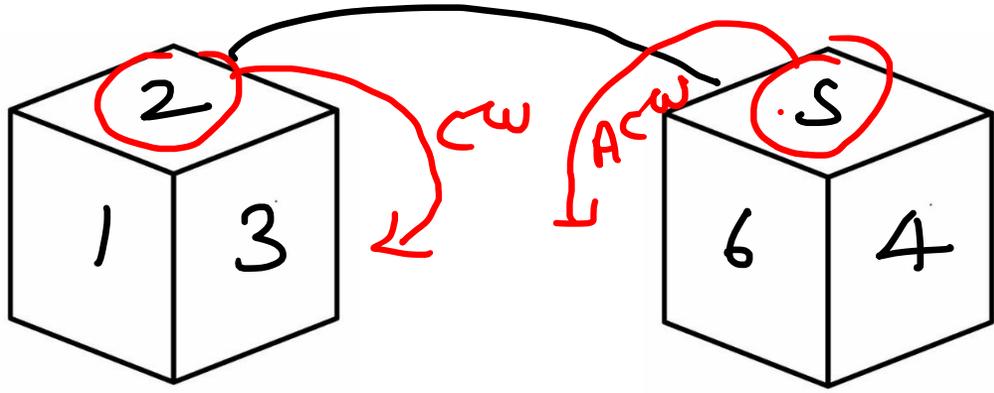


(1)

1/2/3 — 4/5/6

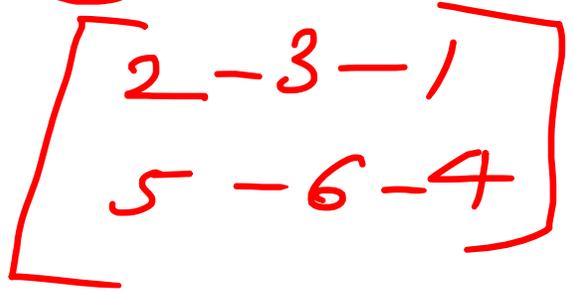
Q.16

No Common



- ~~a) 4~~
- ~~b) 4/6~~
- ~~c) 6~~
- ~~d) 4/5/6~~

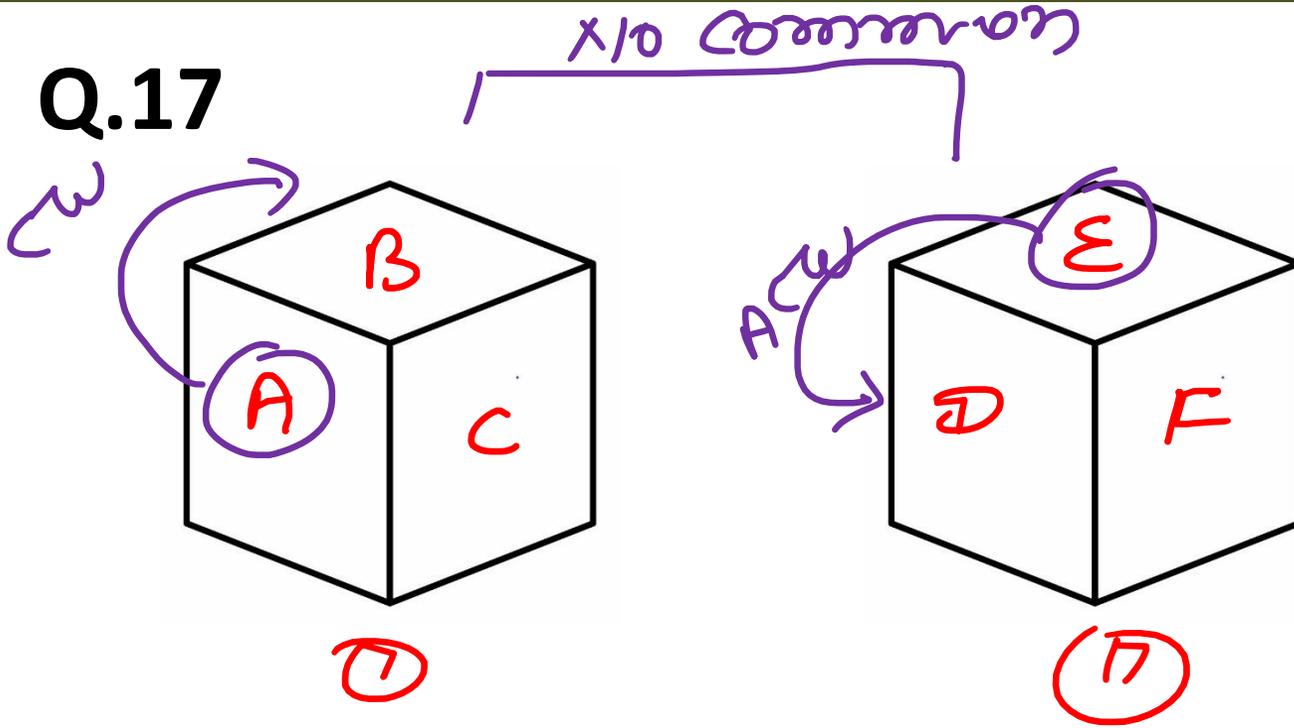
If 2 is opp to 5 then what is opp to 1



No Common
↓ OPP

one common trick

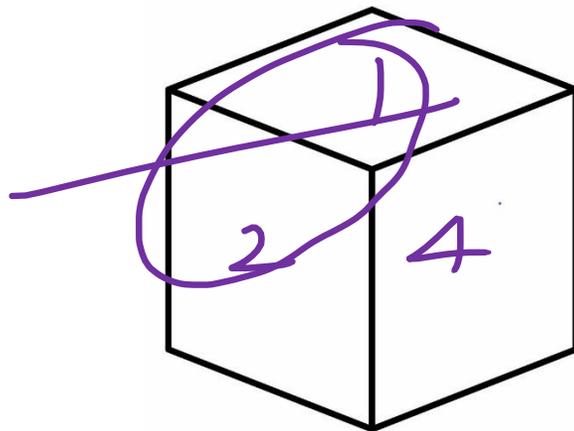
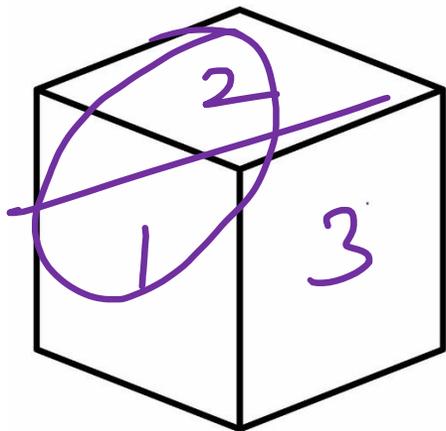
Q.17



A - B - C
D - D - F

If A is opp to E, what is opp to D(B)

Q.18



3-4
~~1/2~~ - ~~5/6~~
2-6

if 1 is opp to 5 then check w opp. to 2?
 6

Case-III (More than two fig.)



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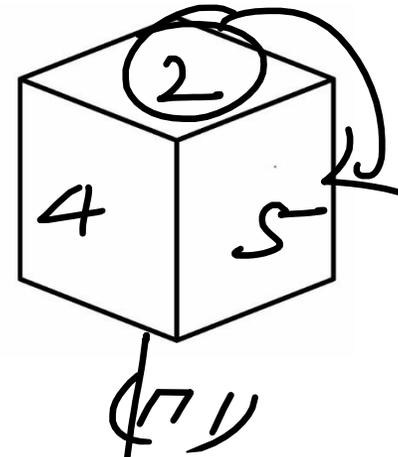
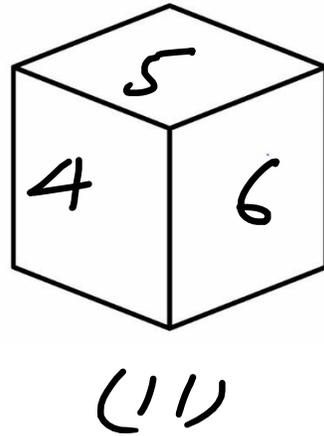
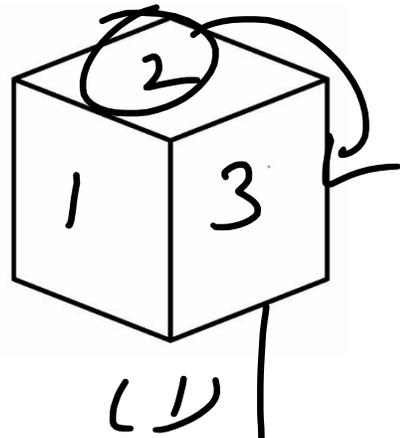


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Case-III (More than two fig.)

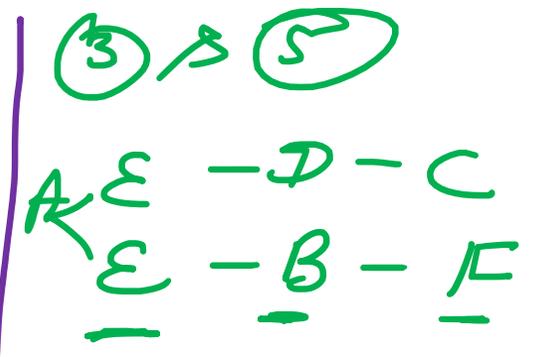
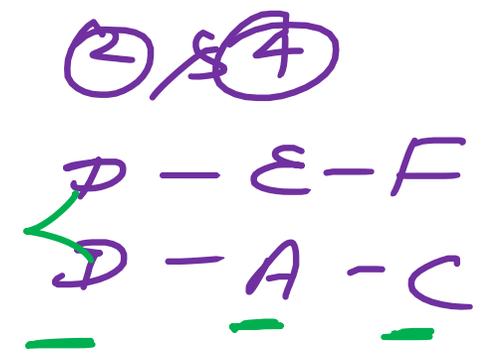
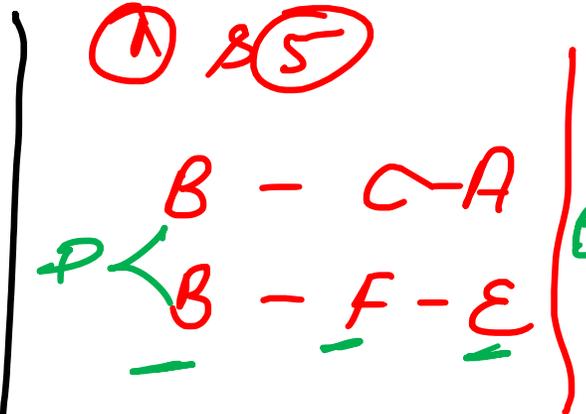
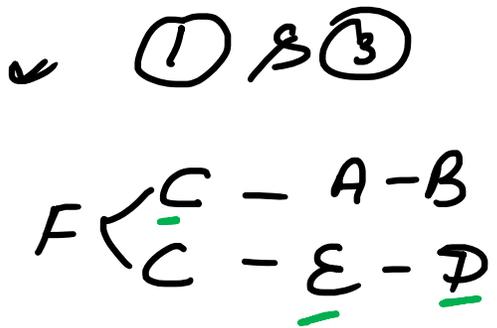
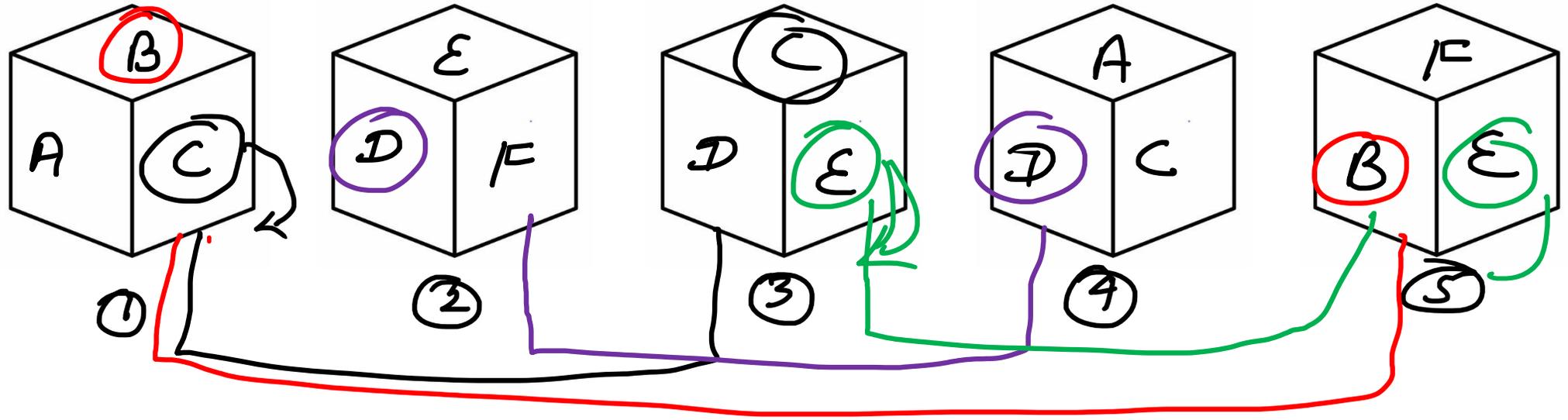
Q.19



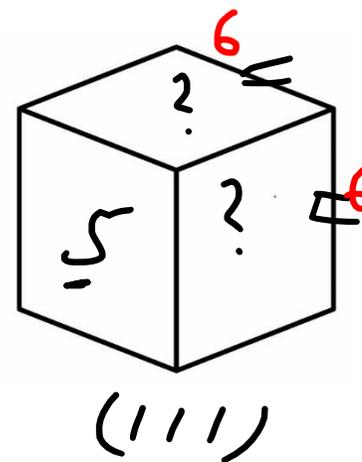
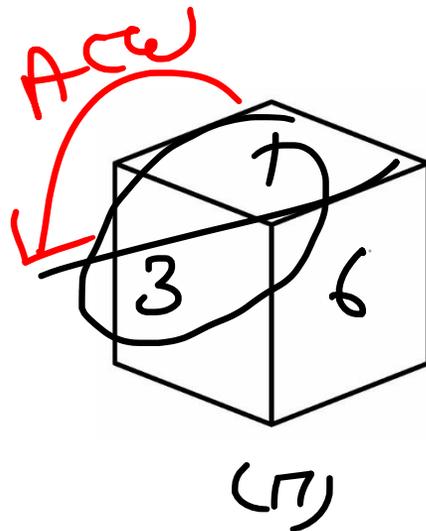
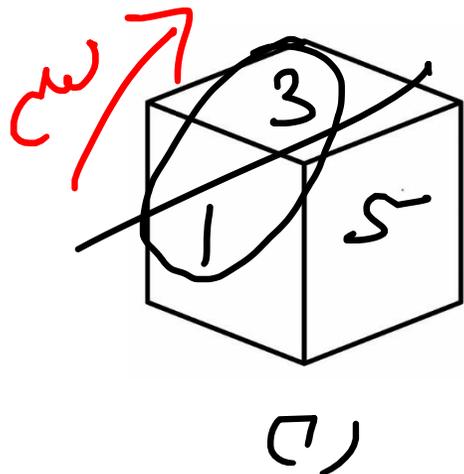
1 - 4
2 - 6
3 - 5
↕

6 < 2 - 3 - 1
2 - 5 - 4

Q.20



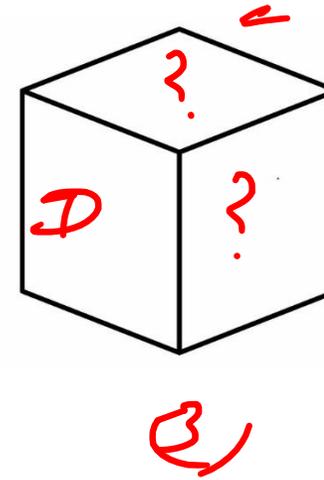
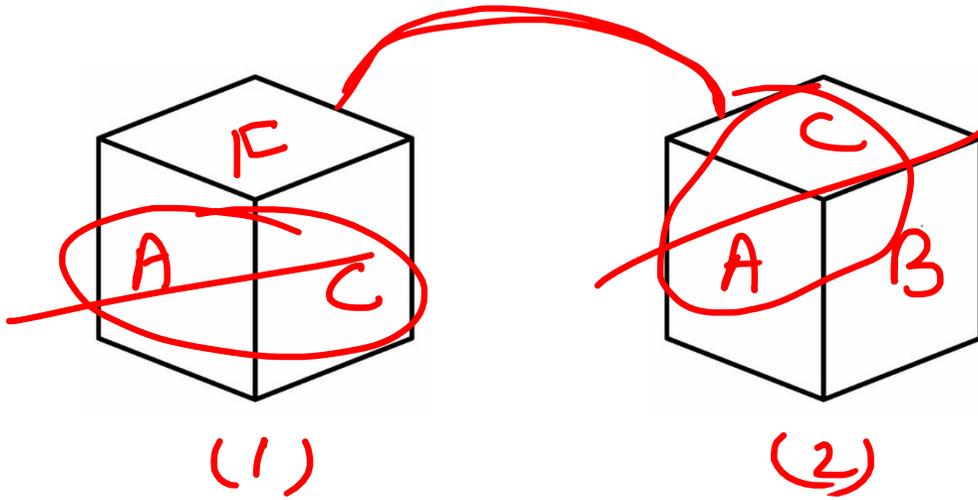
Q.21



- ~~X~~ (A) 6, 4
- ~~X~~ (B) 6, 2
- ~~X~~ (C) 2, 4
- ~~X~~ (D) 6, 3

5-6
113-214

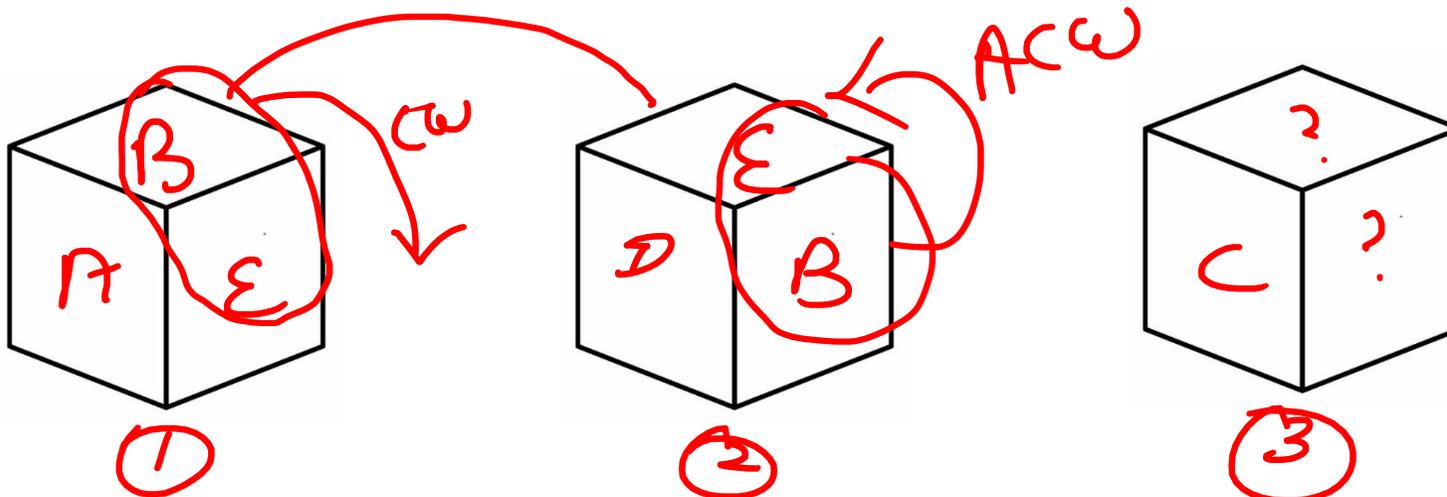
Q.22



- ~~X (a) B, F~~
- ~~X (b) A, C~~
- ~~X (c) A, E~~
- (d) B, E

F - B
 ↻
 A/C - D/E

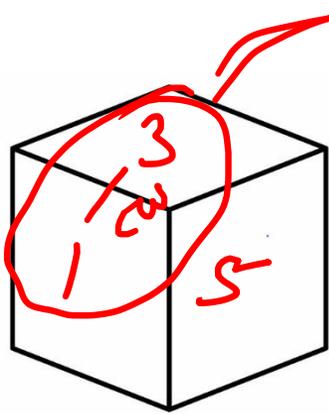
Q.23



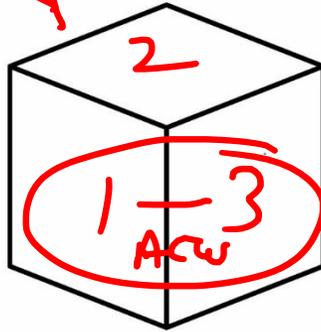
A - D
B/E - C/F

- ~~X (A, A, D)~~
- ~~X (B, B, E)~~
- ~~X (C, B, F)~~
- ✓ (E, A, F)

Q.24

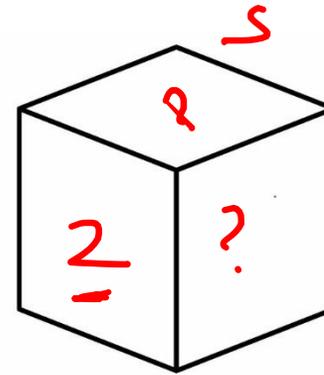


(1)



(2)

$$\underline{\underline{5 - 2}}$$



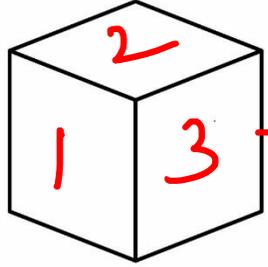
(3)

~~(a) 5, 1~~
~~(b) 5, 6~~
~~(c) 5, 4~~
~~(d) 4, 6~~

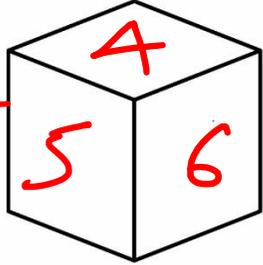
DICE



CASE-11



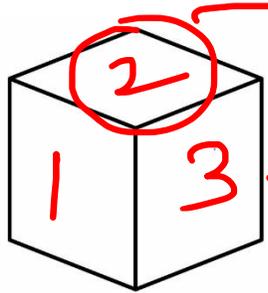
(i)



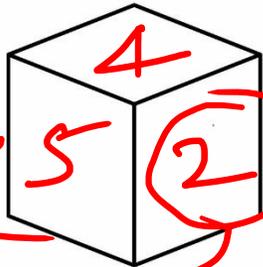
(ii)

CASE-11

No Common

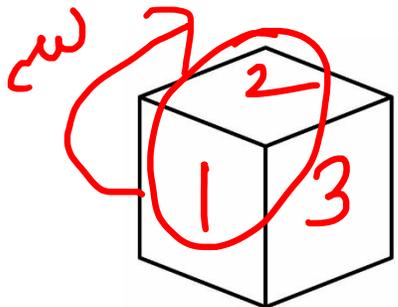


(i)



(ii)

One Common



(i)



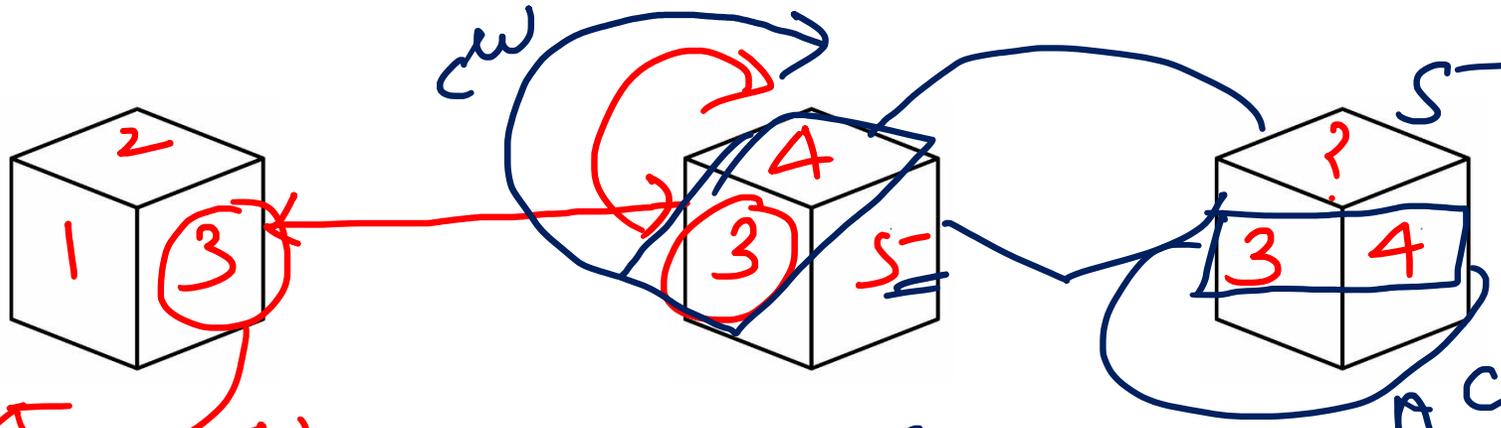
(ii)

Two Common

common surfaces
opposite move
cw - Acw
Acw - cw

DICE

Q.25

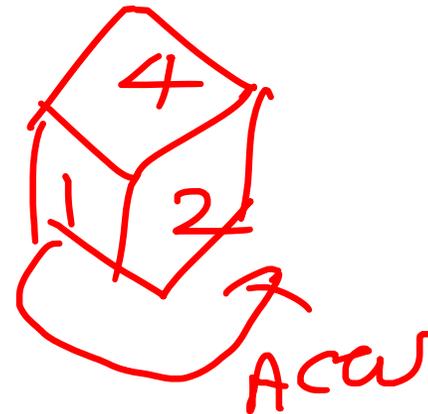
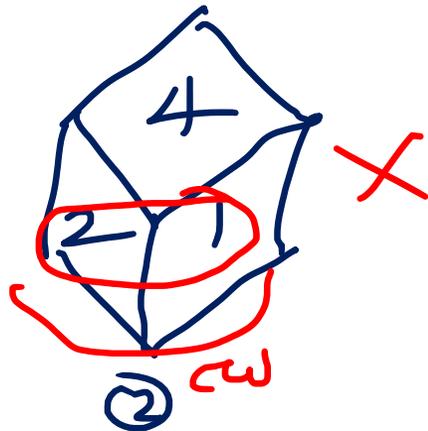
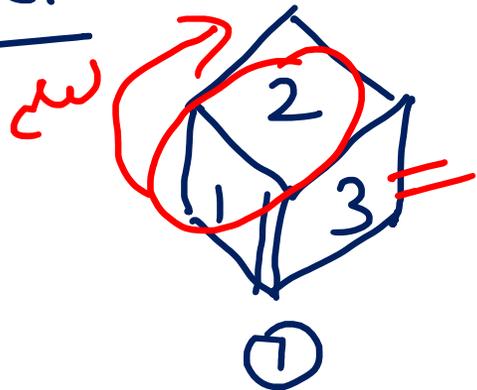


6 $\left\{ \begin{array}{l} 3-1-2 \\ 3-4-5 \end{array} \right. |$

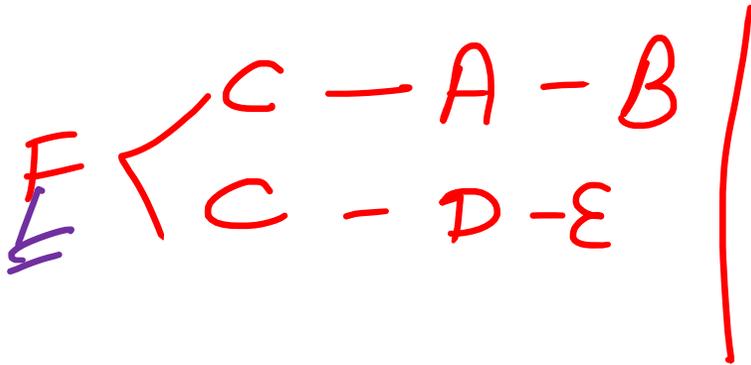
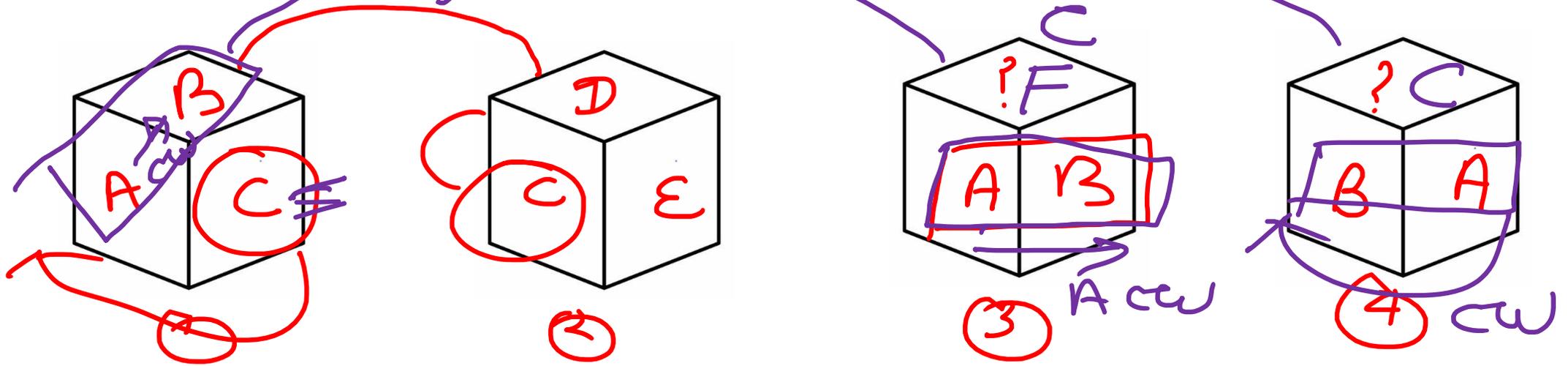
same / opp.
5 2

- (a) 1
- ~~(b) 2~~
- (c) 5
- (d) 6

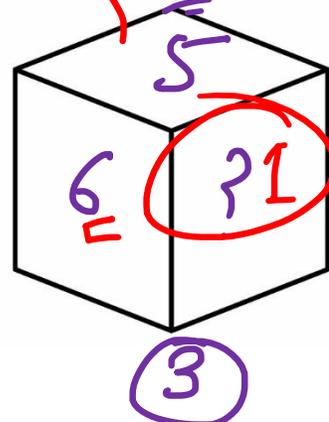
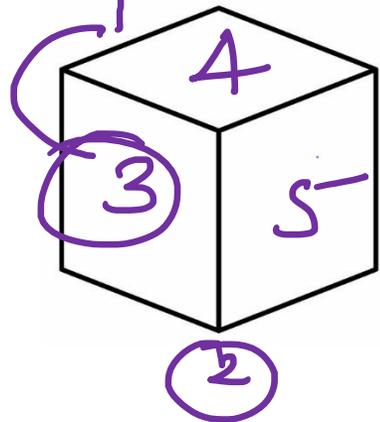
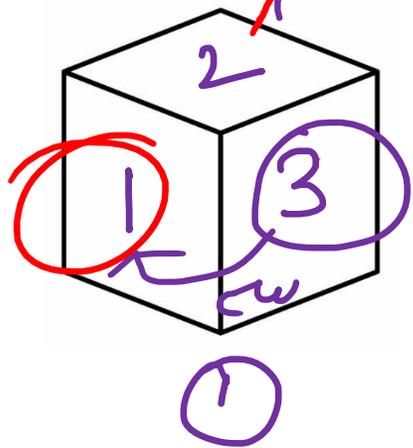
Note:-



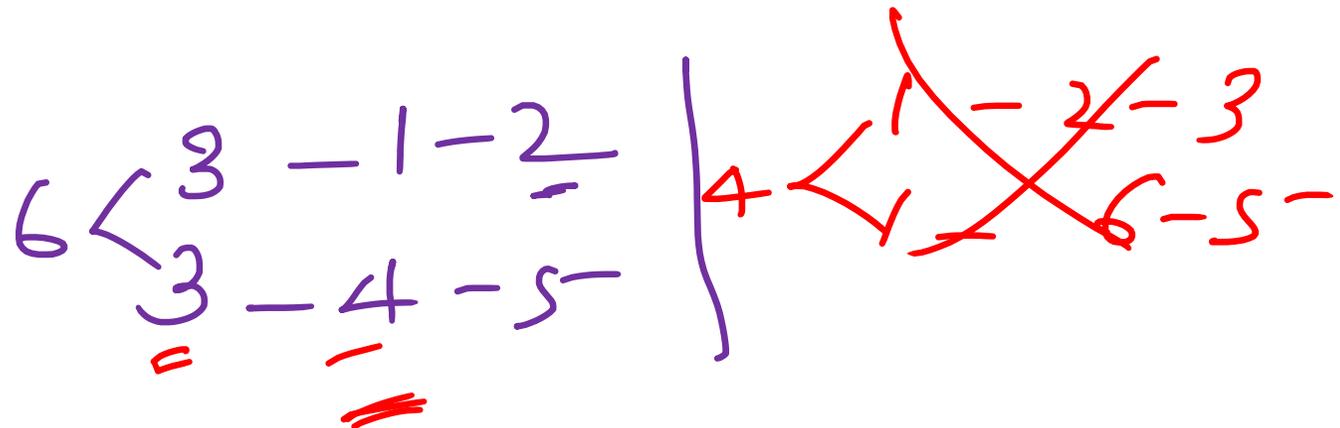
Q.26



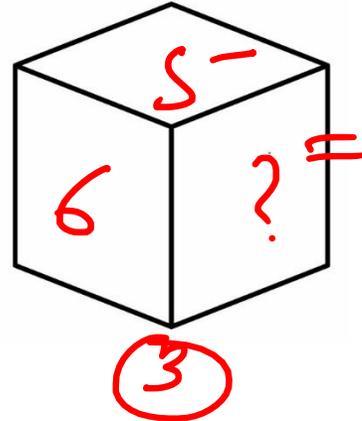
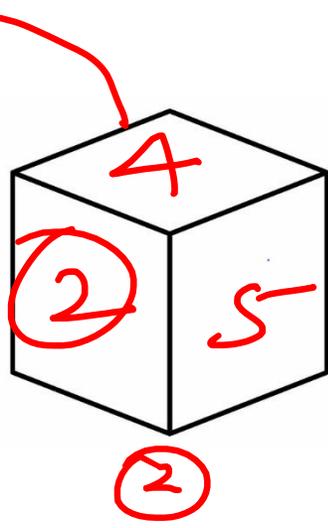
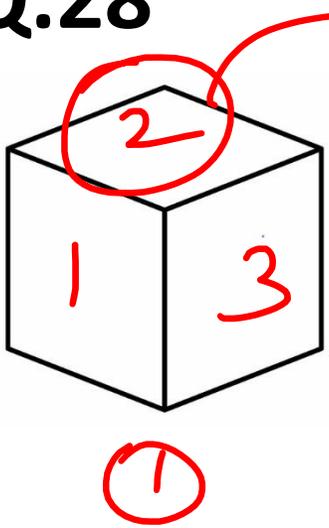
Q.27



- ①
- ~~X (a) 1~~
 - ~~X (b) 2~~
 - ~~X (c) 3~~
 - (d) 4
- ②
- ~~(a) 4~~
 - ~~X (b) 2~~
 - ~~X (c) 3~~
 - ~~X (d) 5~~



Q.28



✓ (a) 4

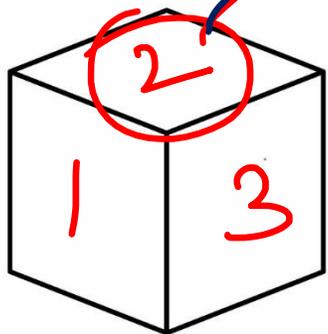
✗ (b) 1

✗ (c) 2

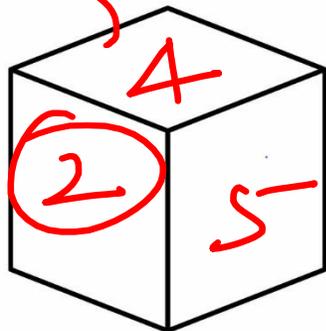
✗ (d) 6

6 $\left\{ \begin{array}{l} 2-3-1 \\ 2-4-5 \end{array} \right.$

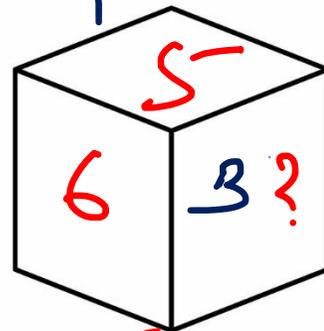
Q.29



①

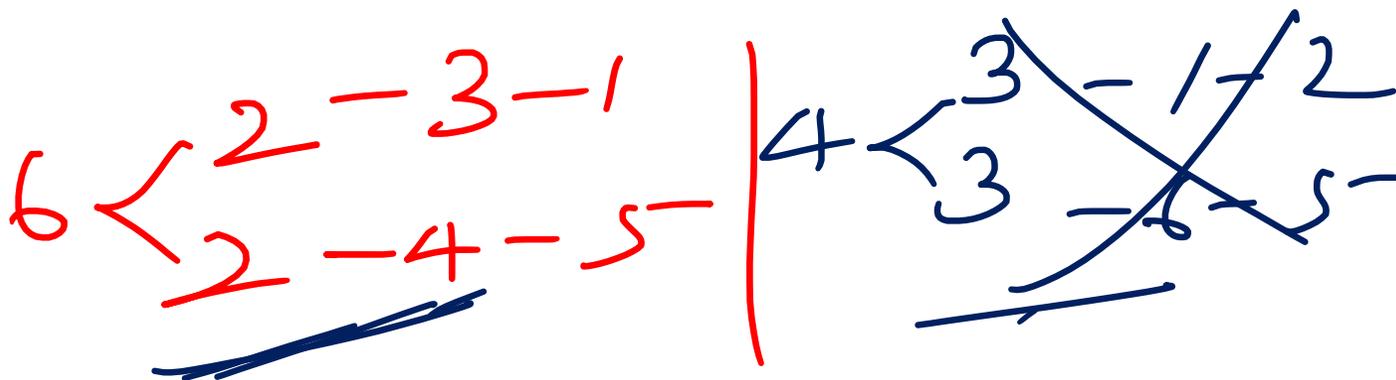


②



③

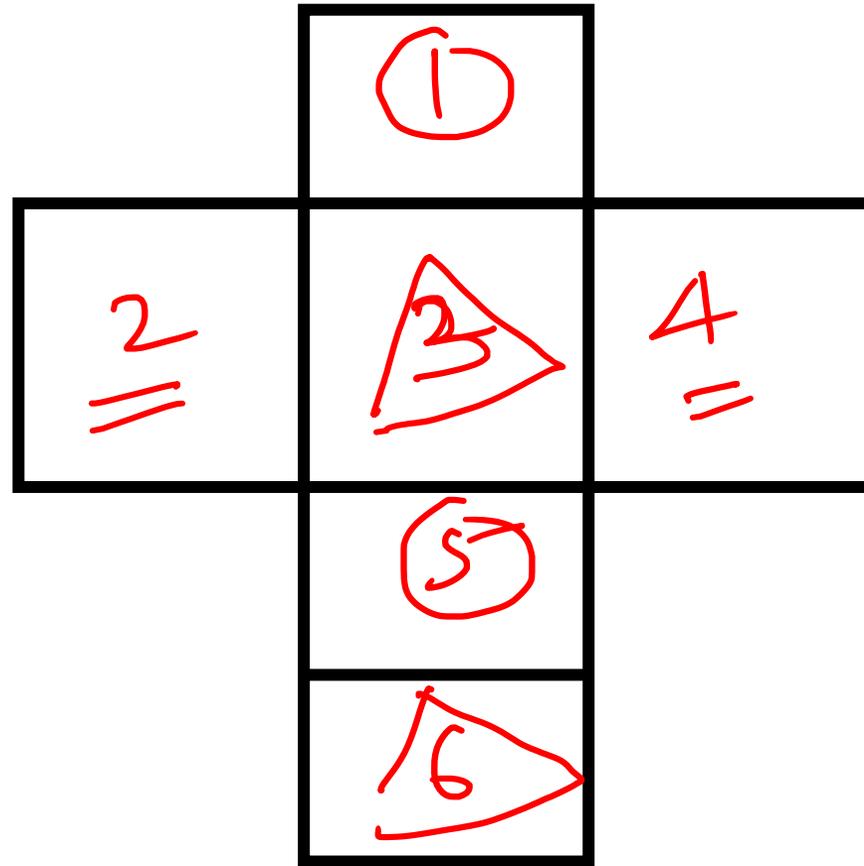
- (a) 4
- (b) 1
- (c) 2
- (d) 3



OPEN DICE

Case-IV (Open Dice)

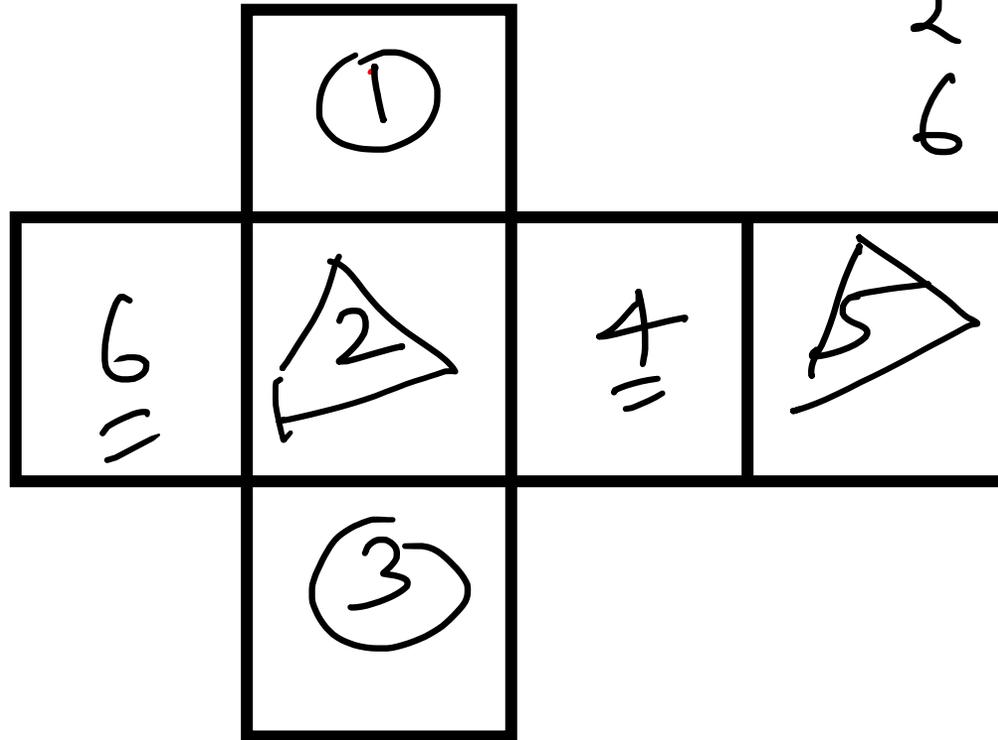
Q.31



1 - 5
3 - 6
2 - 4

Case-IV (Open Dice)

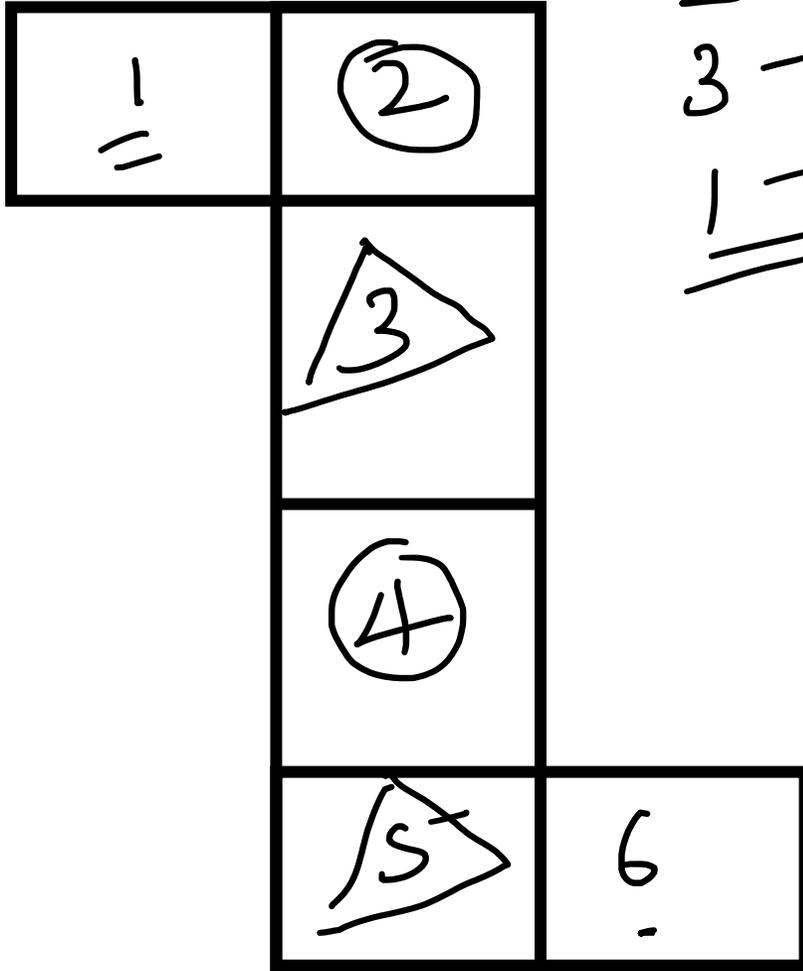
Q.32



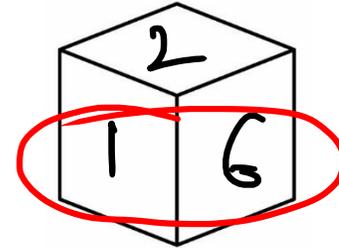
1 - 3
2 - 5
6 - 4 ↘

Case-IV (Open Dice)

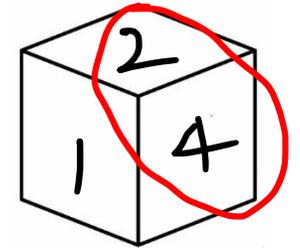
Q.33



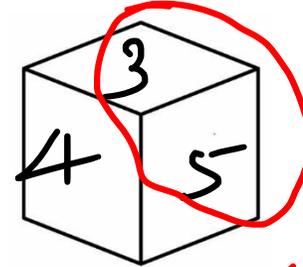
2-4
3-5
1-6



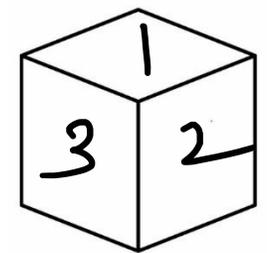
(a) X



(b) X



(c) X

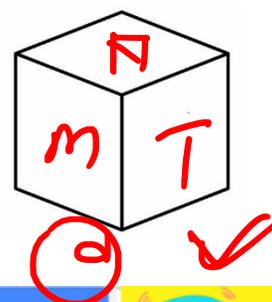
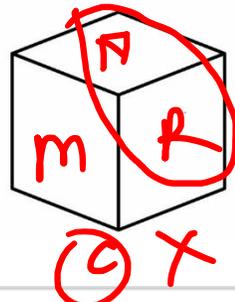
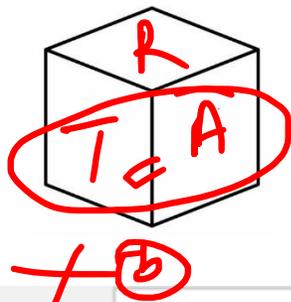
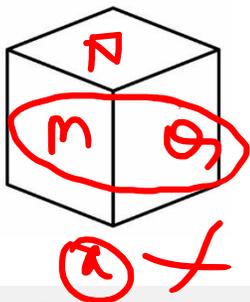
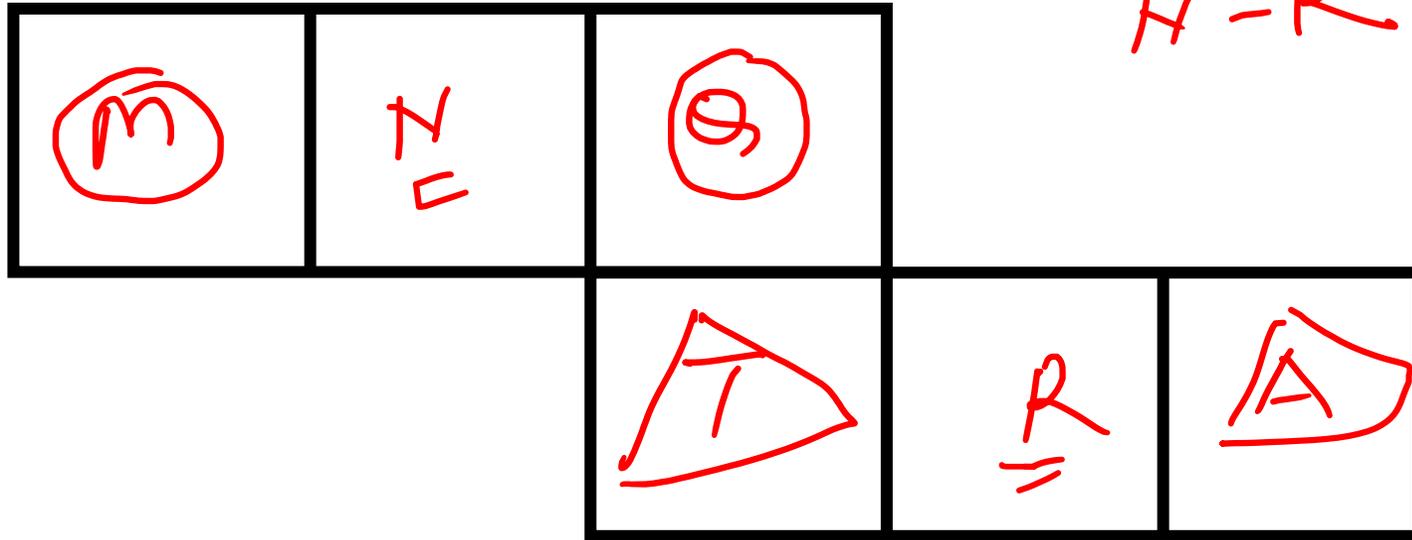


(d) ✓

Case-IV (Open Dice)

Q.34

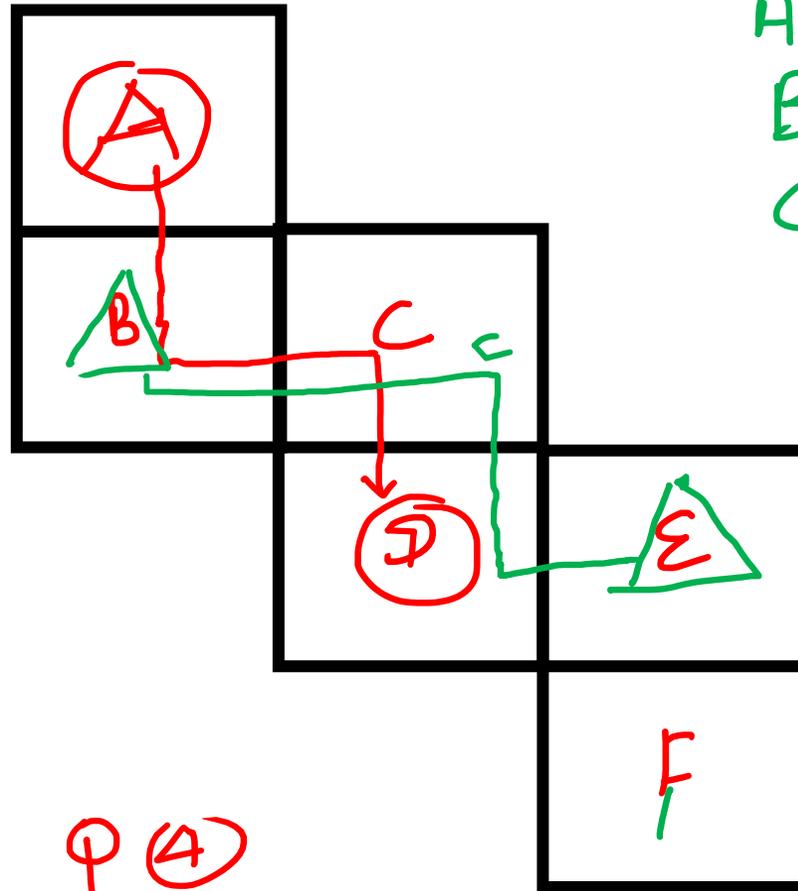
M-S =
T-A
H-R



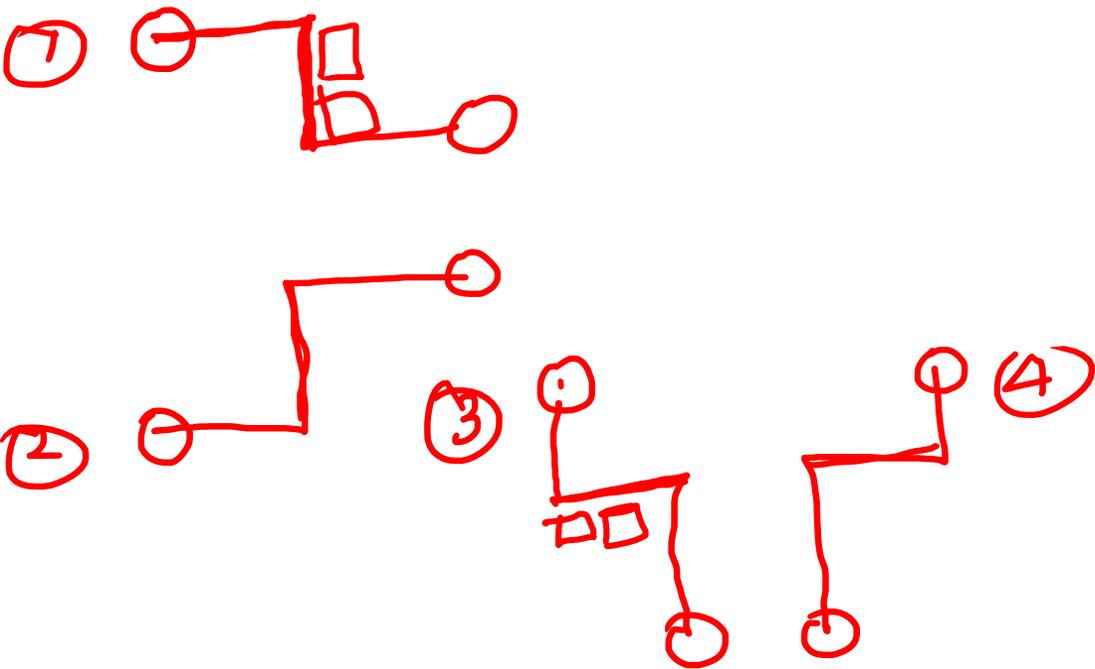
Case-IV (Open Dice)

Q.35

Zig Zag method

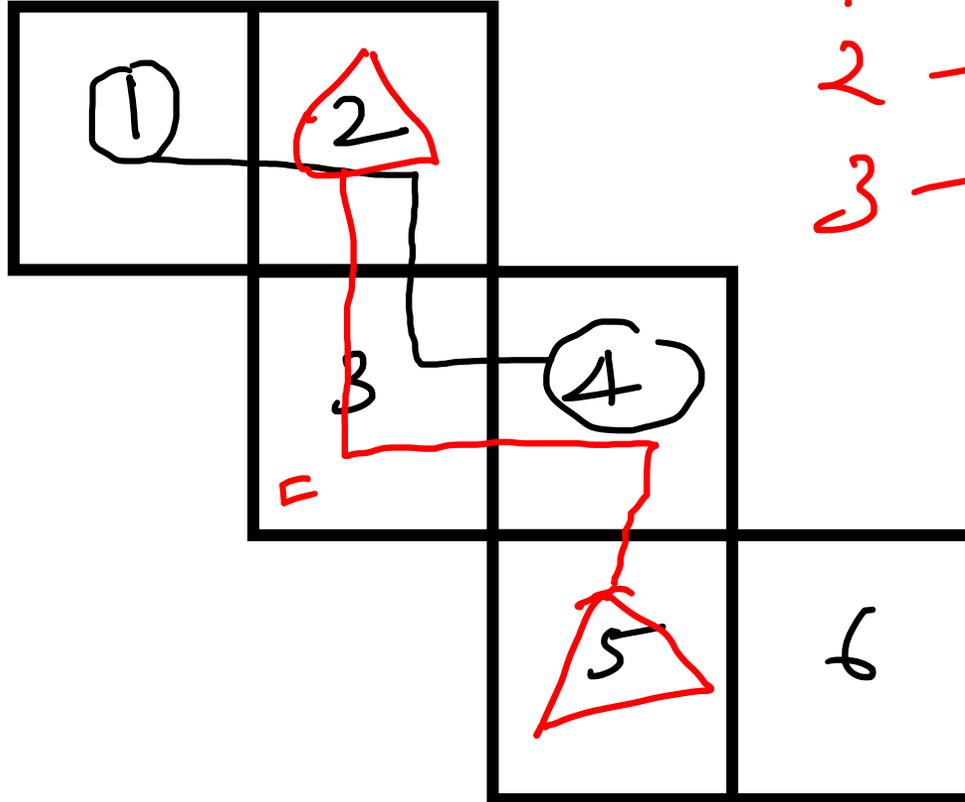


A - D
B - E
C - F



Case-IV (Open Dice)

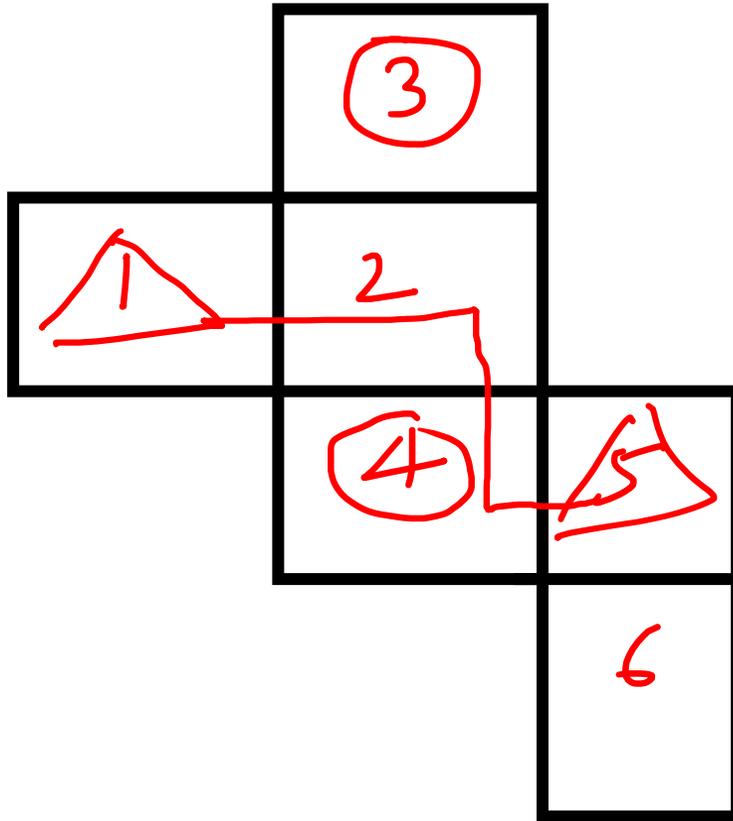
Q.36



1 - 4
2 - 5
3 - ~~6~~

Case-IV (Open Dice)

Q.37



UPSC - CSE

SS Paper - III

Q. 1 oppo \rightarrow 5 ✓

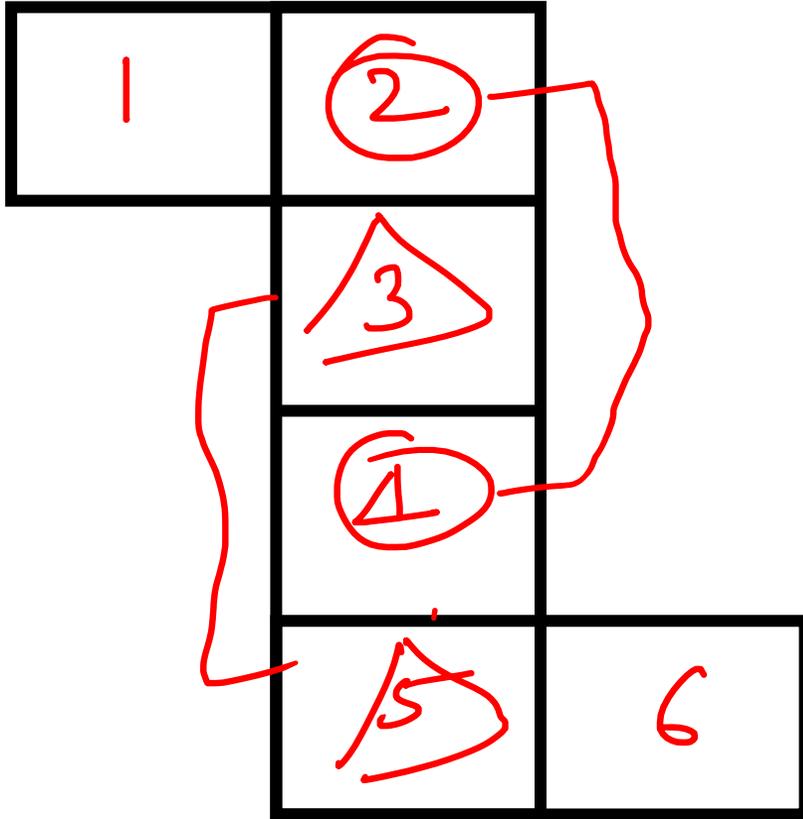
3 - 4

1 - 5

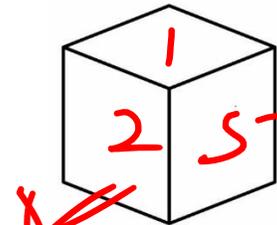
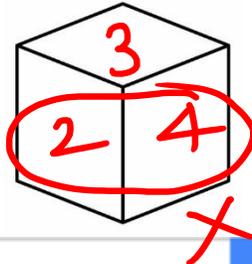
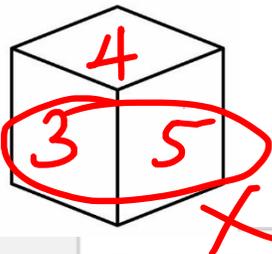
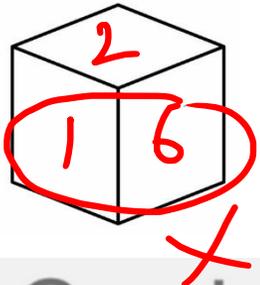
2 - 6

Case-IV (Open Dice)

Q.38

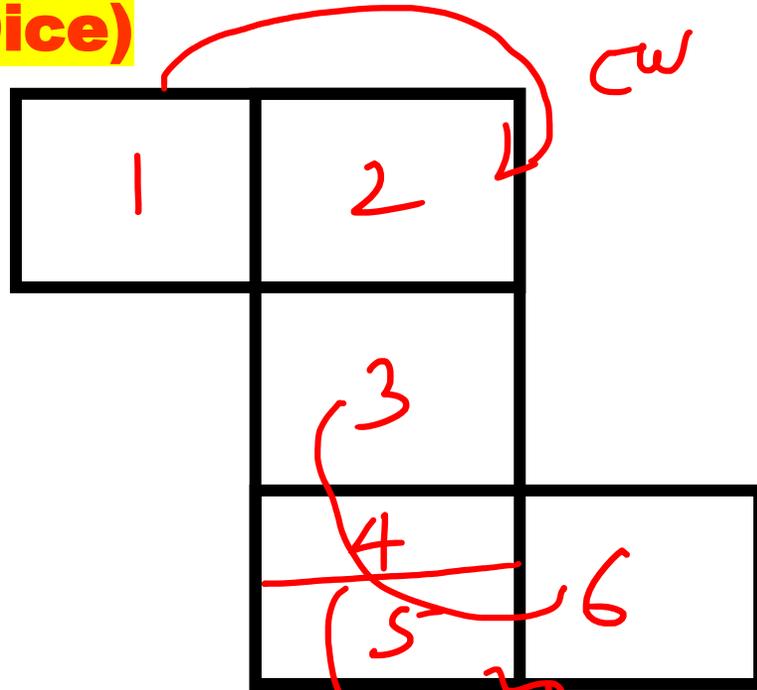


2-4 ✓
3-5 ✓
1-6 ✓



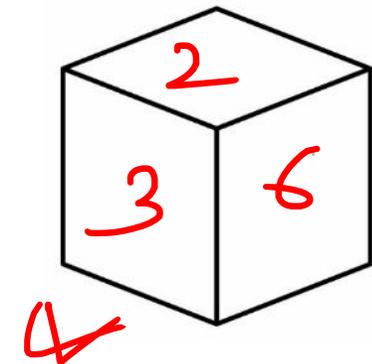
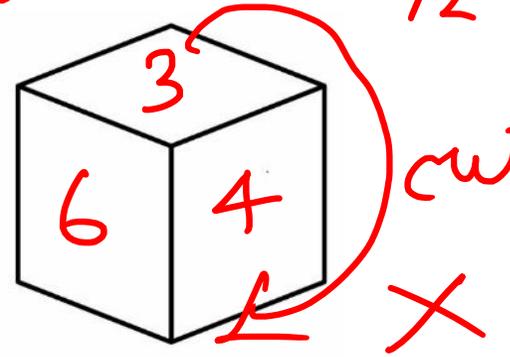
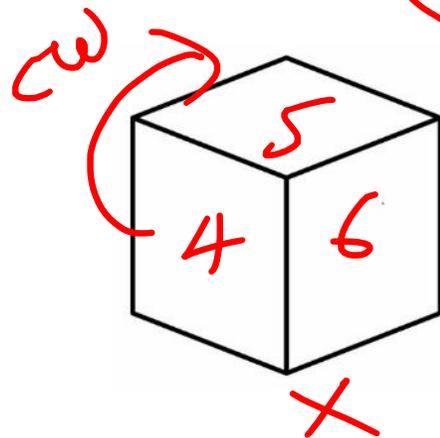
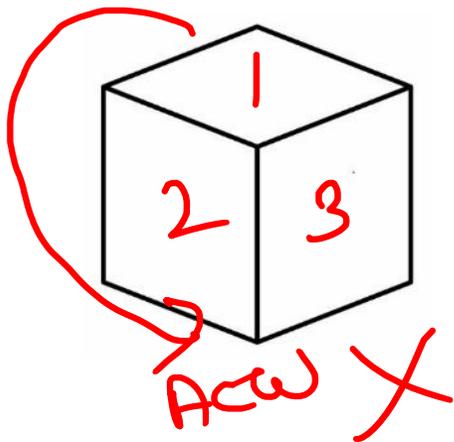
Case-IV (Open Dice)

Q.39



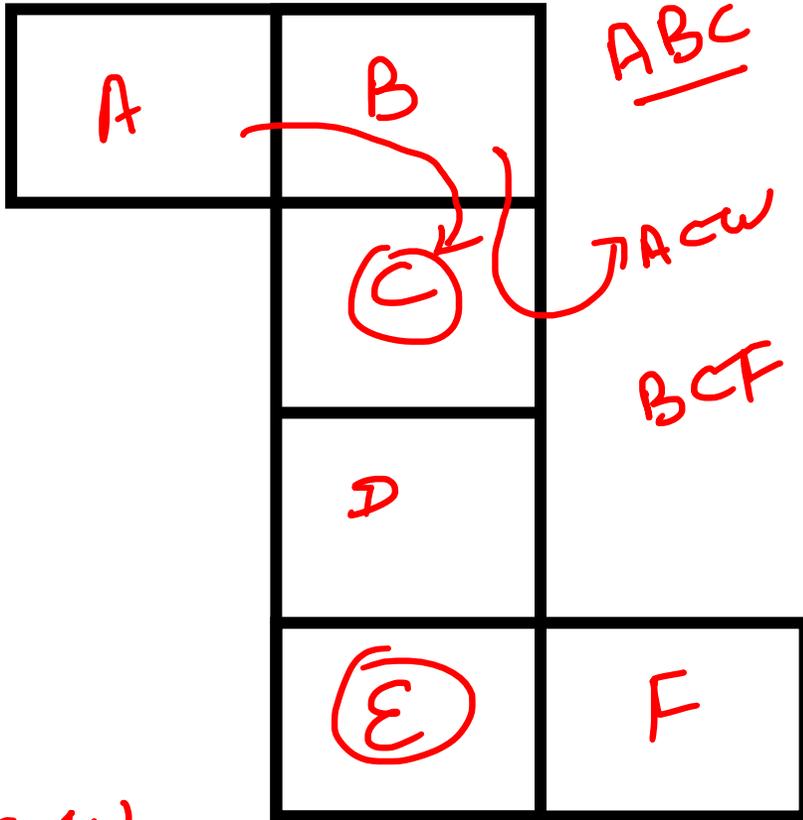
2-4
3-5
1-6

open dice में Rotations
direction में ए दए
direction close में
ए

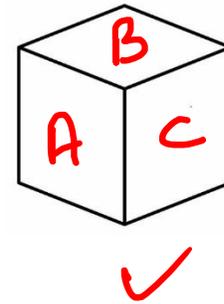


Case-IV (Open Dice)

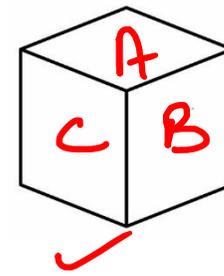
Q.40



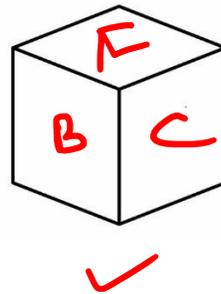
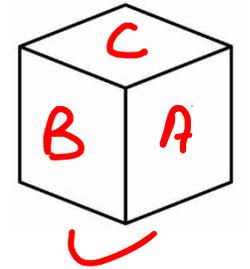
$\begin{matrix} A & B & C \\ A & B & E \end{matrix} = C \text{ w}$
 $\begin{matrix} A & B & E \\ A & B & C \end{matrix} = A \text{ c w}$



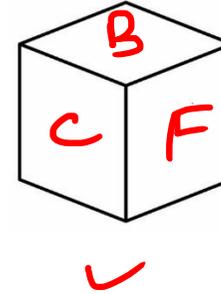
or



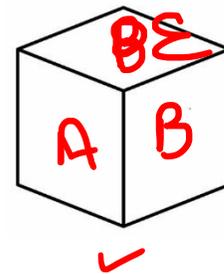
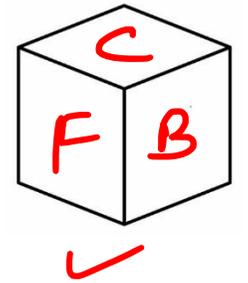
or



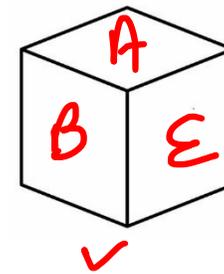
or



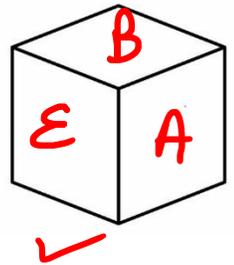
or



or

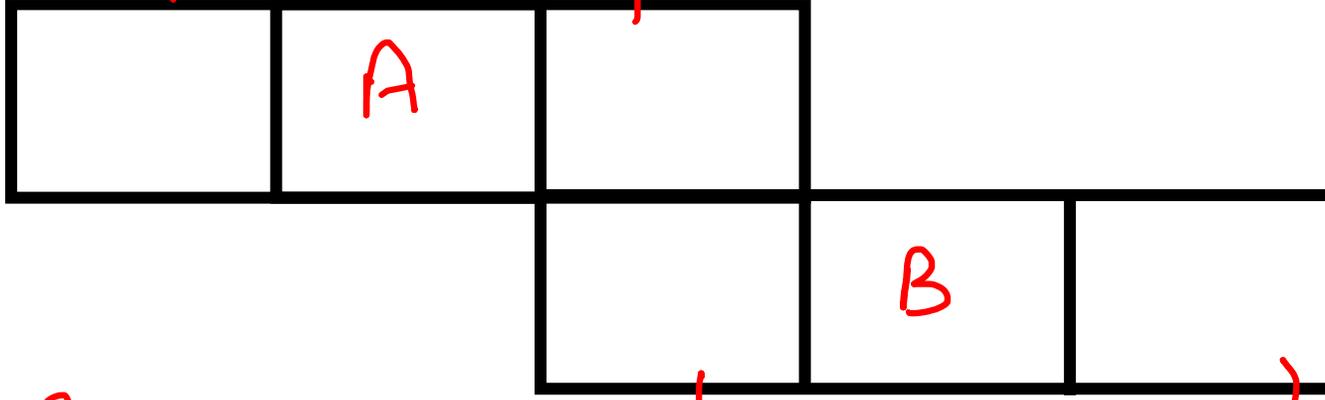


or

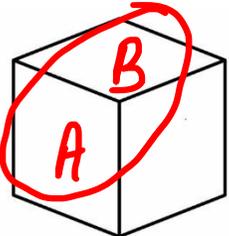
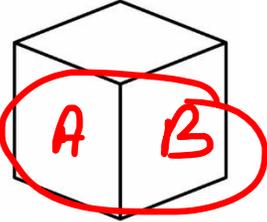
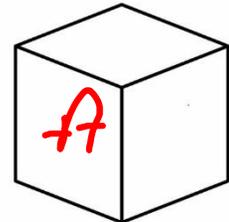
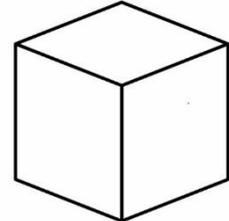


Case-IV (Open Dice)

Q.41

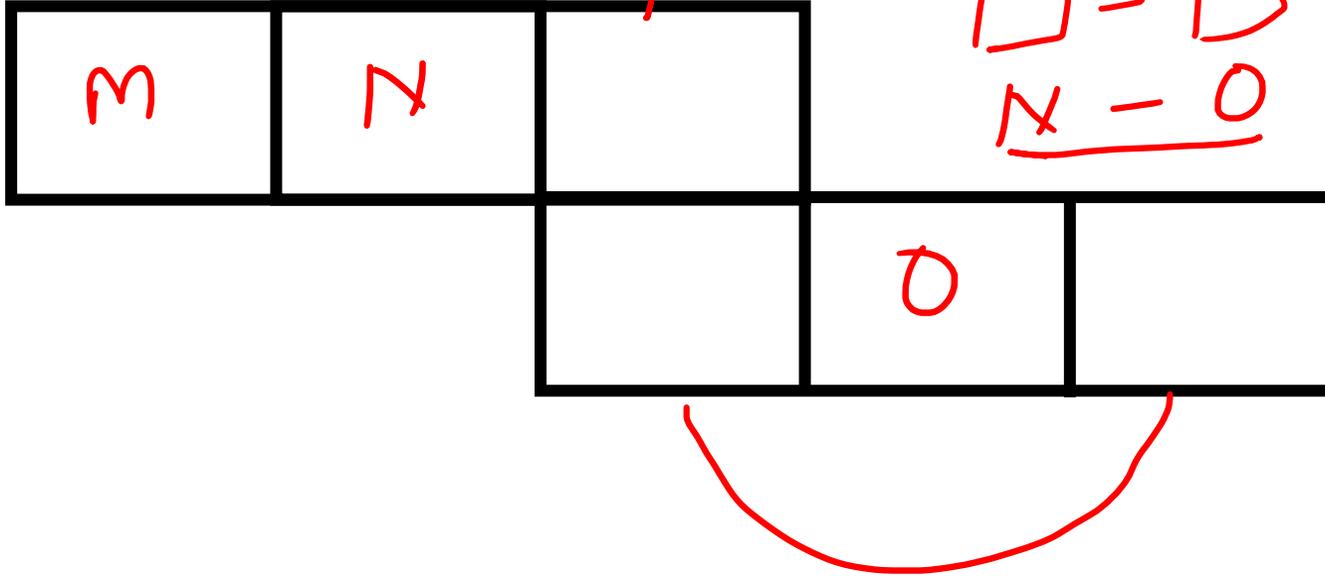


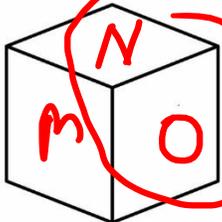
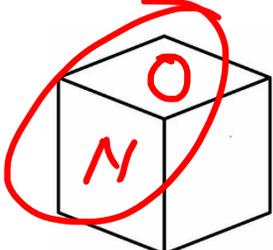
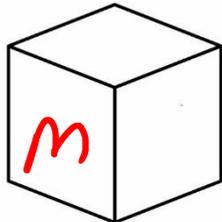
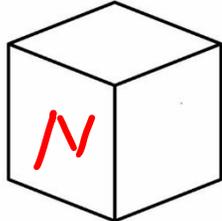
A - B

- a 
- b 
- c 
- d 

Case-IV (Open Dice)

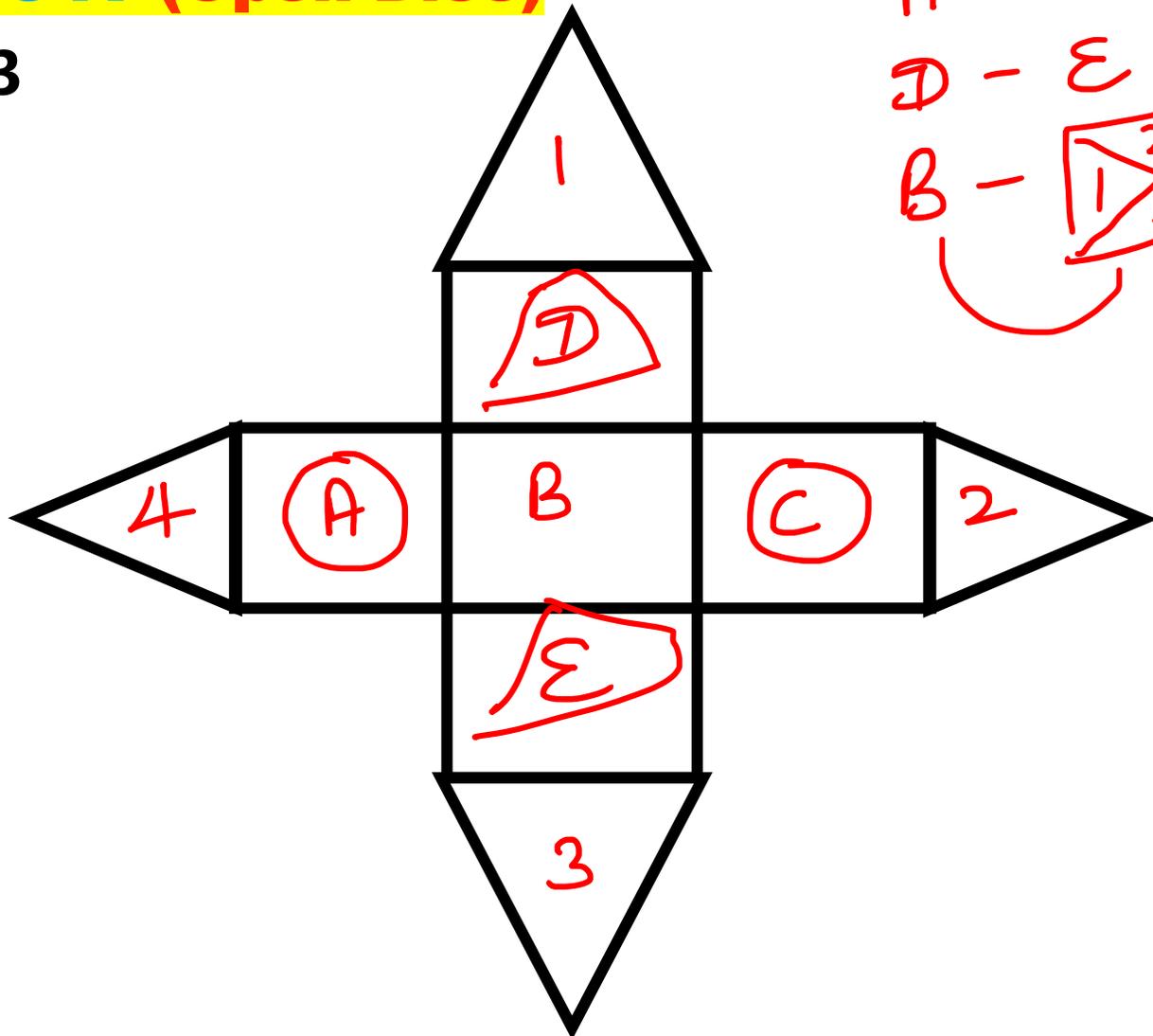
Q.42



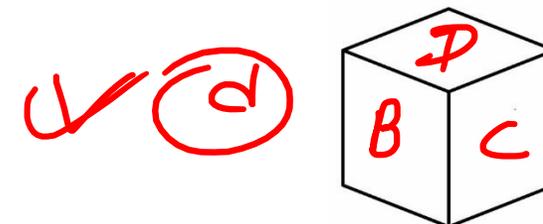
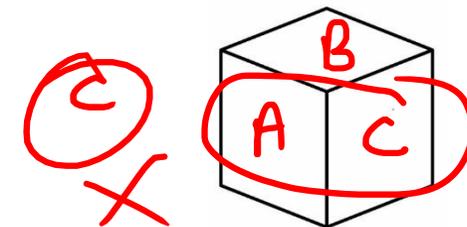
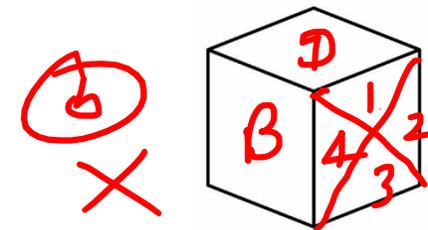
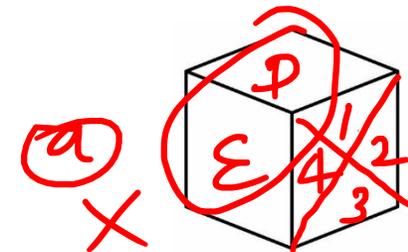
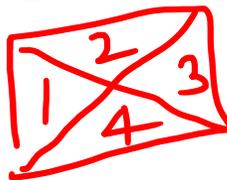
- ~~(a)~~ X 
- ~~(b)~~ X 
- ~~(c)~~ X 
- ✓ (d) 

Case-IV (Open Dice)

Q.43

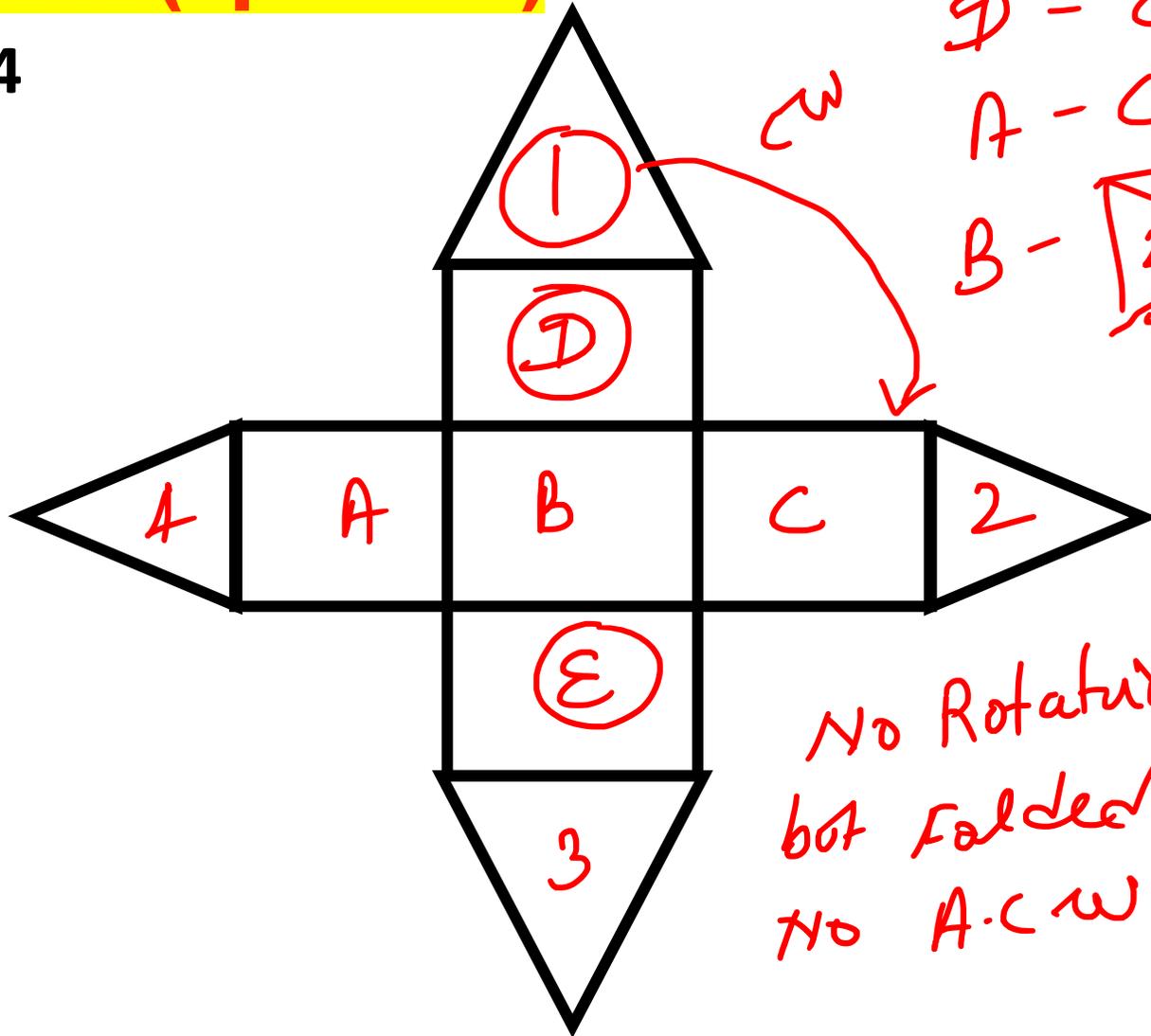


A - C
D - E
B -



Case-IV (Open Dice)

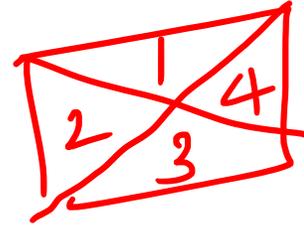
Q.44



D - E

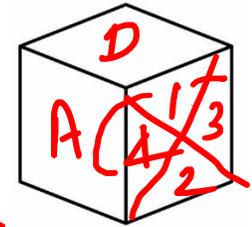
A - C

B -

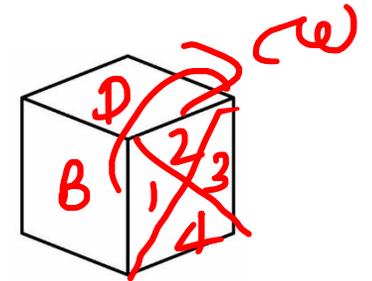


No Rotation - C.W.
 but folded के लिए
 No A.C.W. होगा

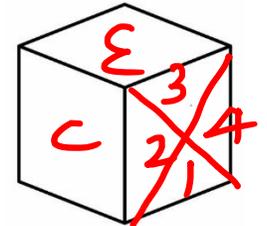
(a) X



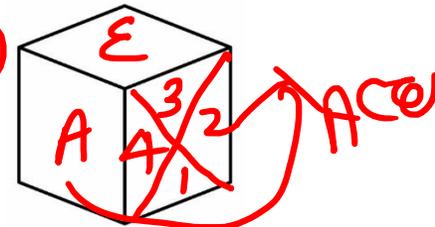
(b) X



(c) X

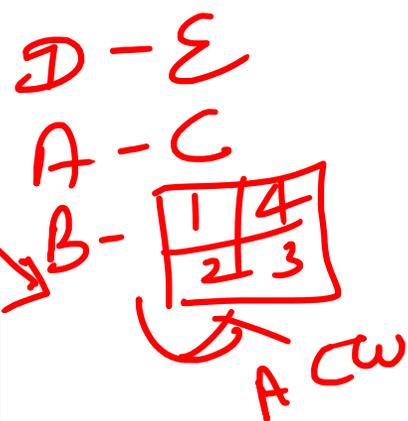
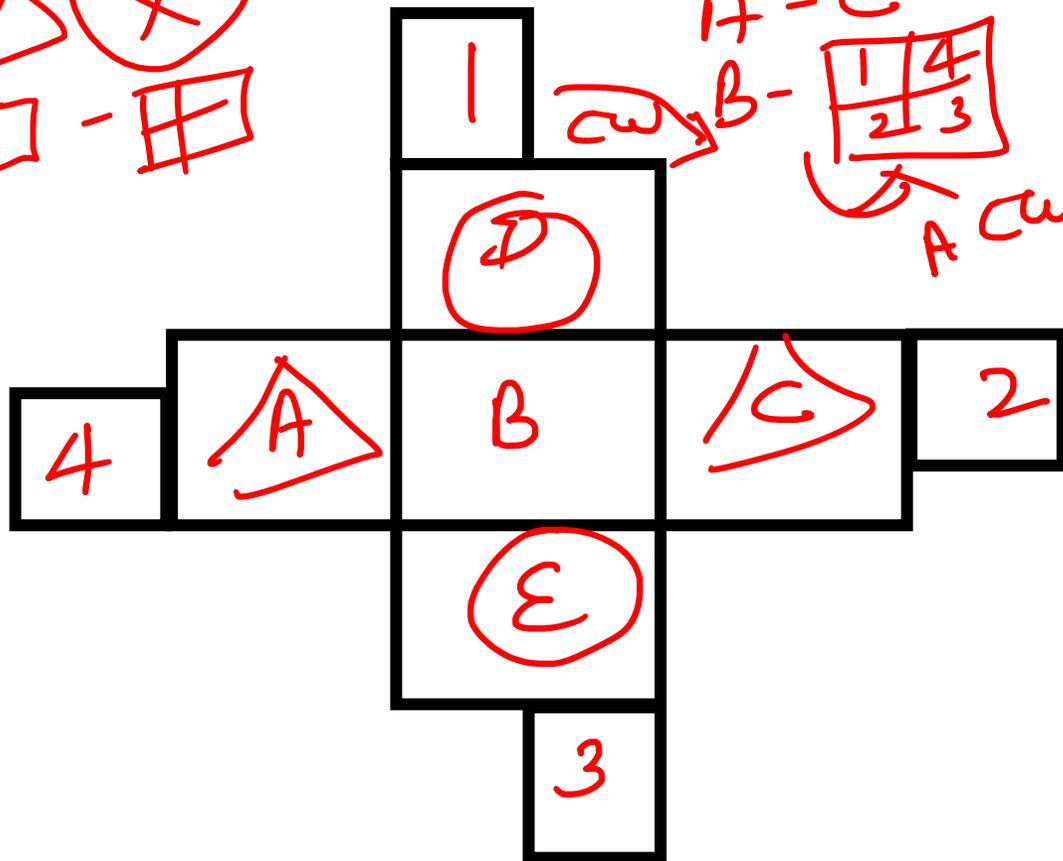
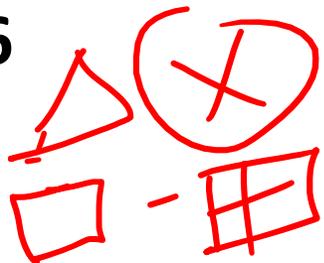


(d) X



Case-IV (Open Dice)

Q.46



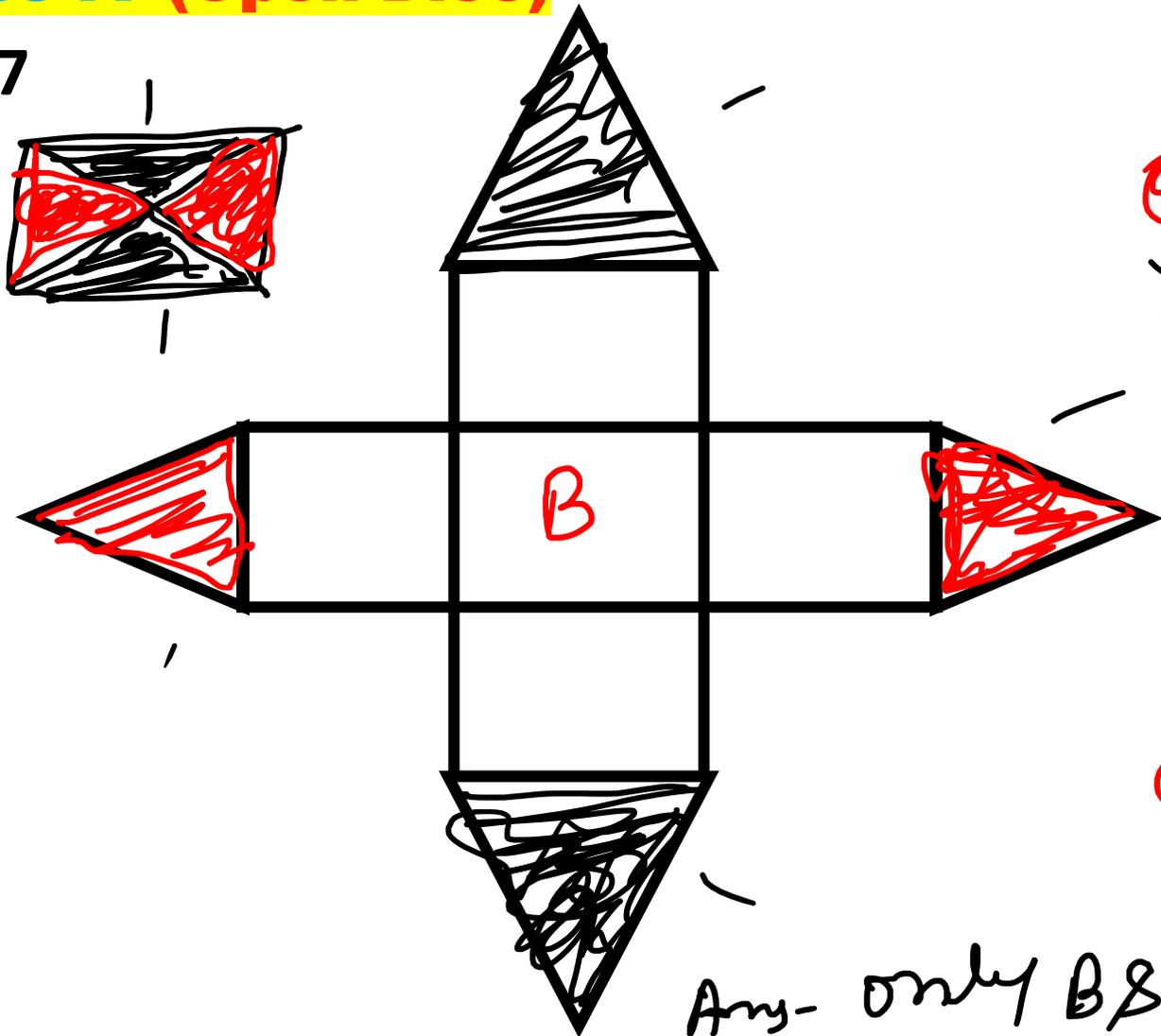
Four 3D dice are shown, each with a red 'X' indicating it is incorrect:

- (a) Top: A, Front: D, Right: 1, Back: 4, Bottom: 2, Left: 3. **Incorrect**
- (b) Top: A, Front: D, Right: 1, Back: 4, Bottom: 2, Left: 3. **Correct**
- (c) Top: A, Front: D, Right: 1, Back: 4, Bottom: 2, Left: 3. **Incorrect**
- (d) Top: A, Front: E, Right: 4, Back: 1, Bottom: 3, Left: 2. **Incorrect**

Case-IV (Open Dice)

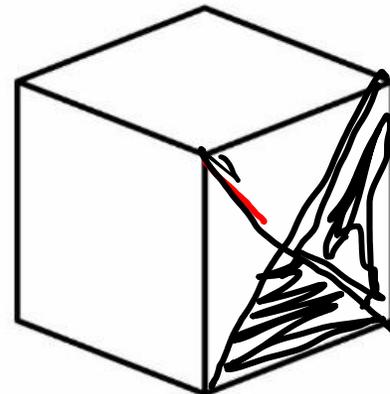
Q.47

B



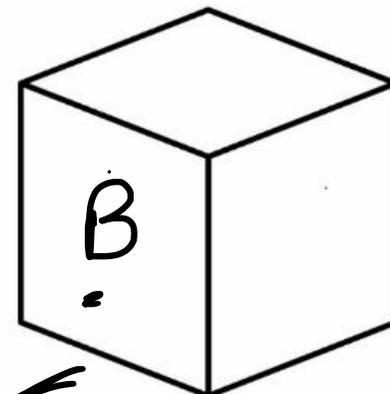
(a)

X



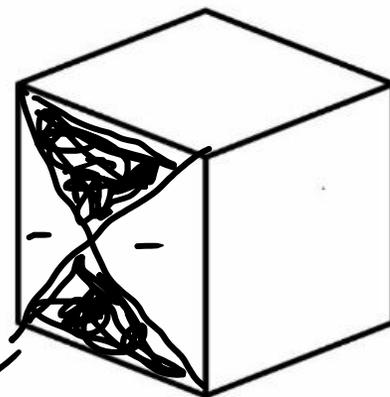
(b)

✓



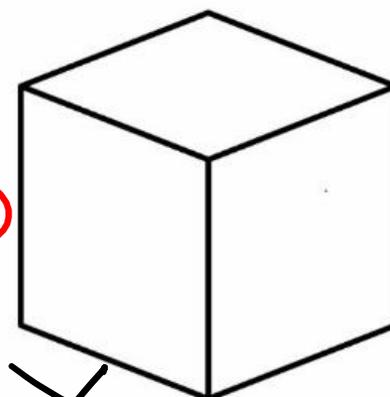
(c)

✓



B

(d)

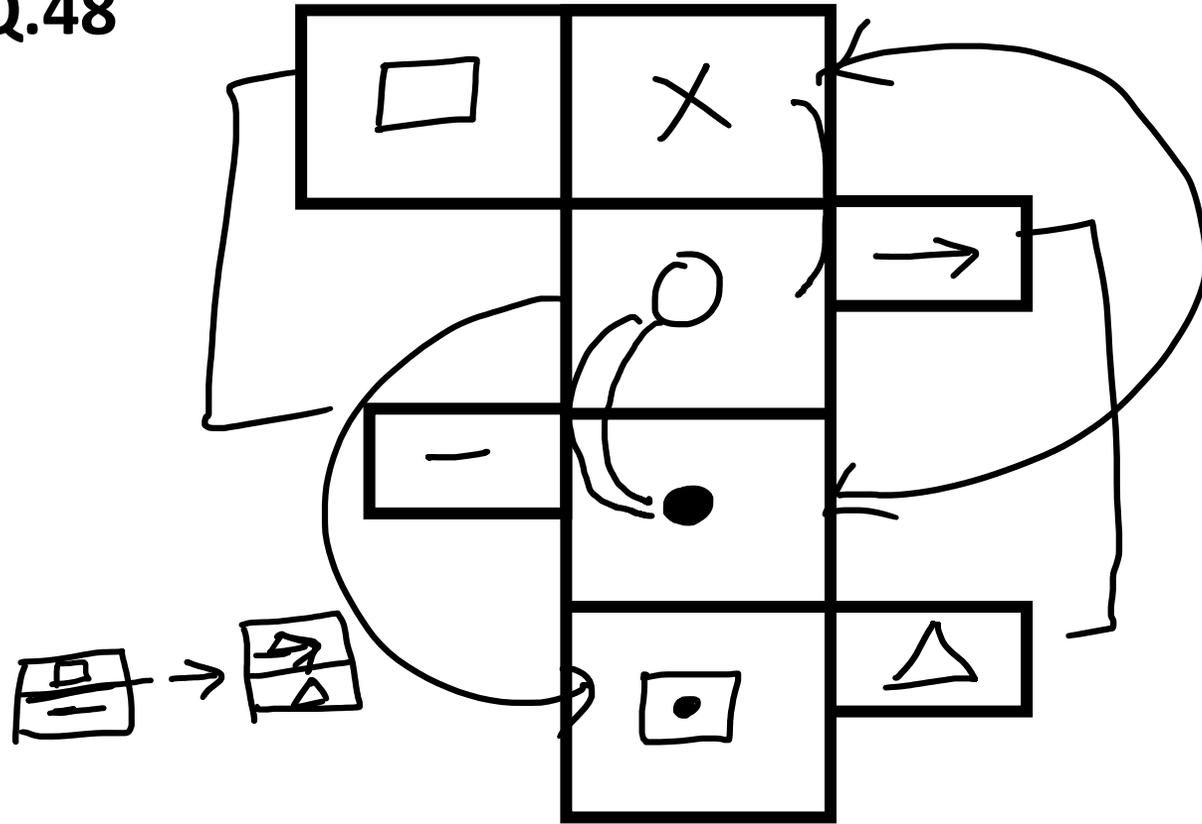


X

Ans- only B & C

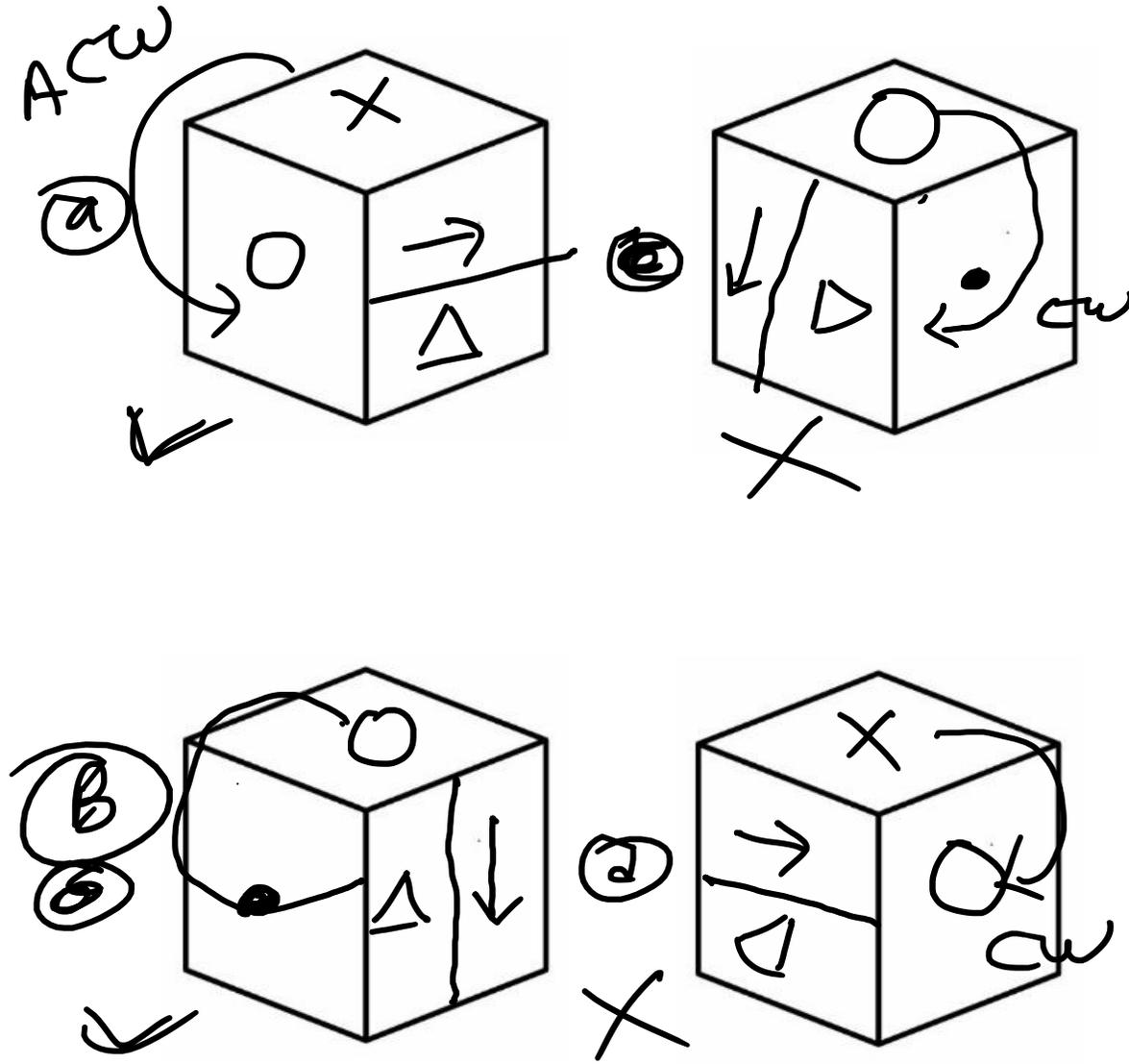
Case-IV (Open Dice)

Q.48



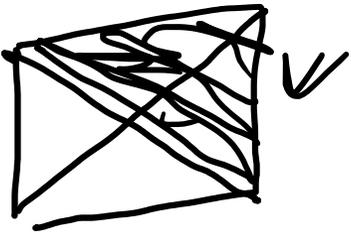
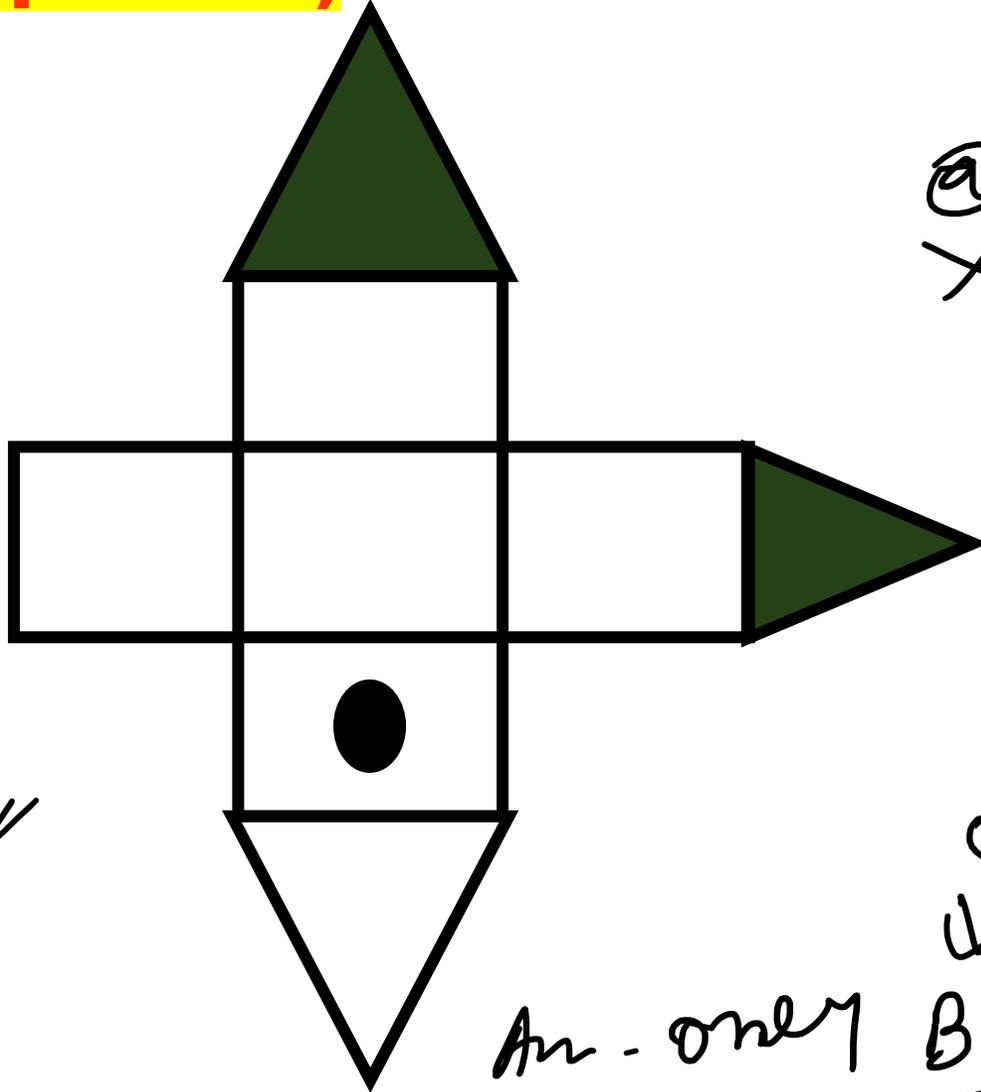
X - ●
O - □

Ans → only AB

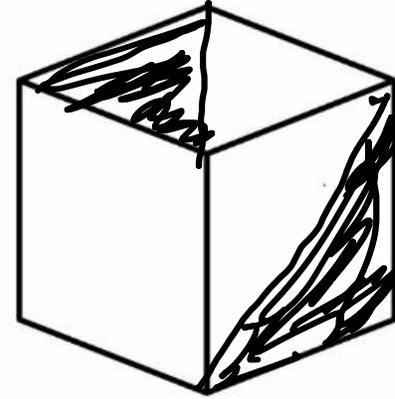


Case-IV (Open Dice)

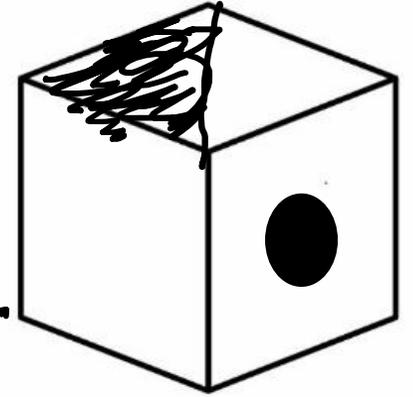
Q.49



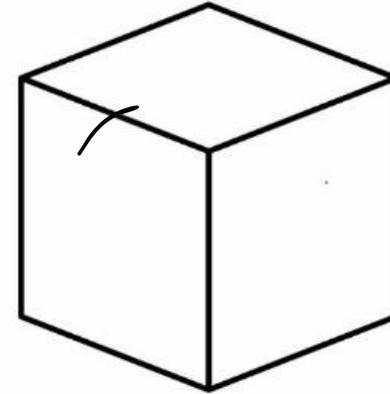
ⓐ
X



ⓑ

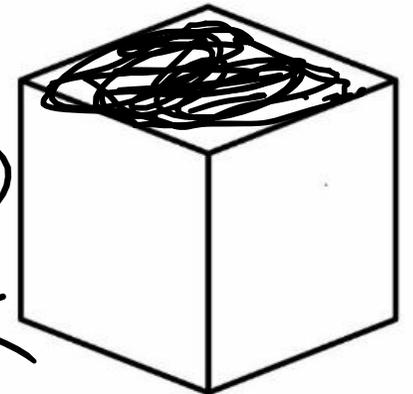


Ⓒ
✓



Ⓓ

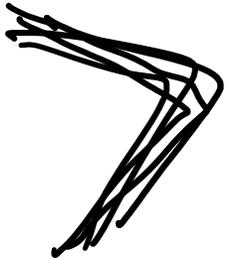
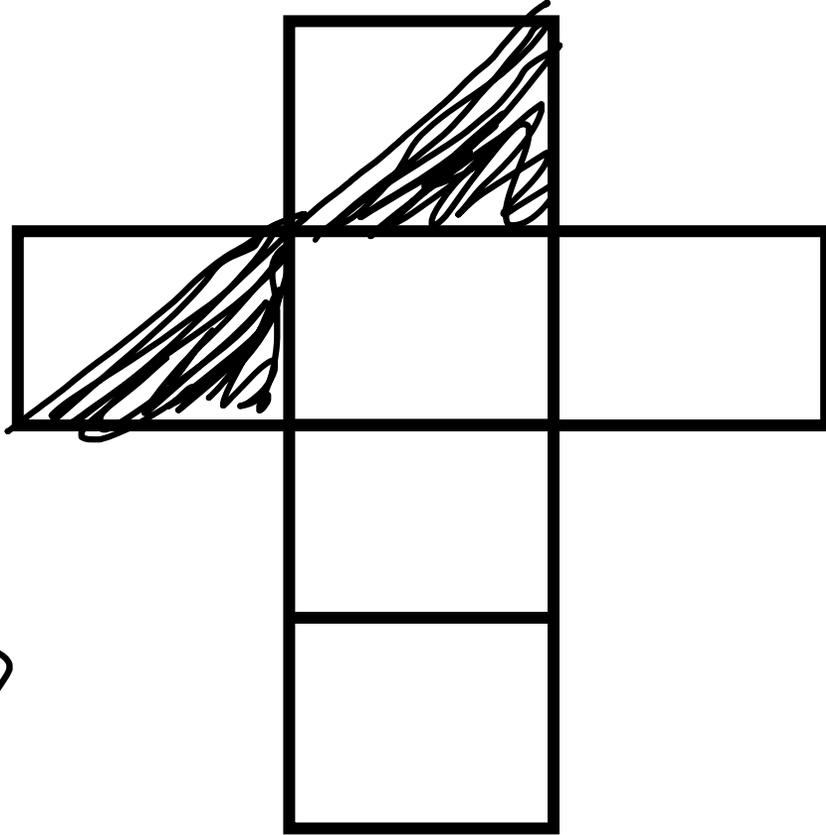
X



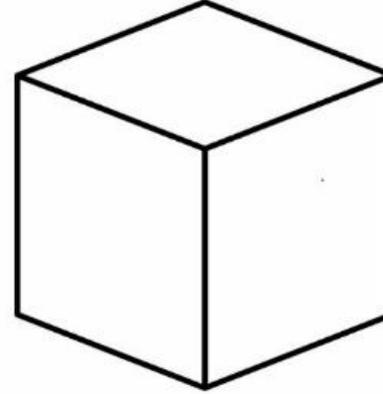
Ans. - only BXC

Case-IV (Open Dice)

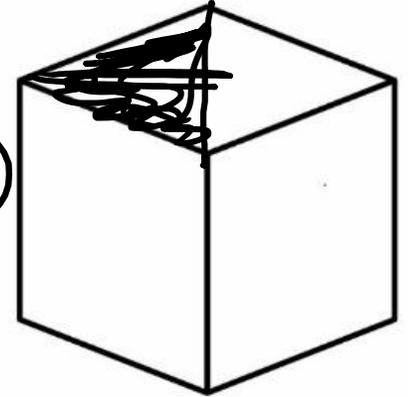
Q.50



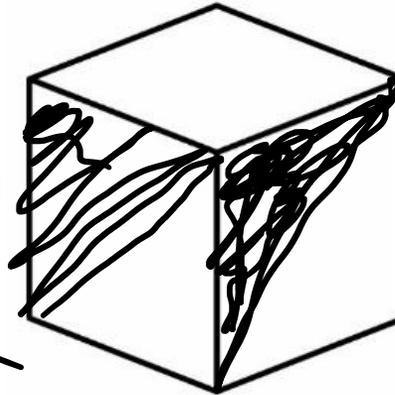
(a) ✓



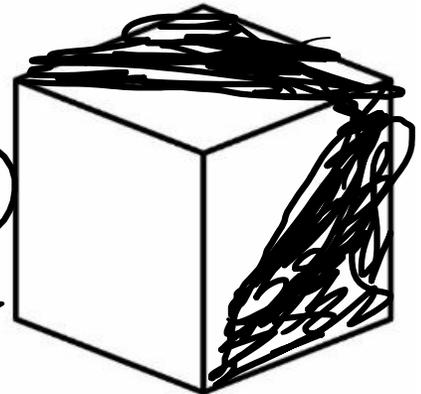
(b) ✗



(c) ✗

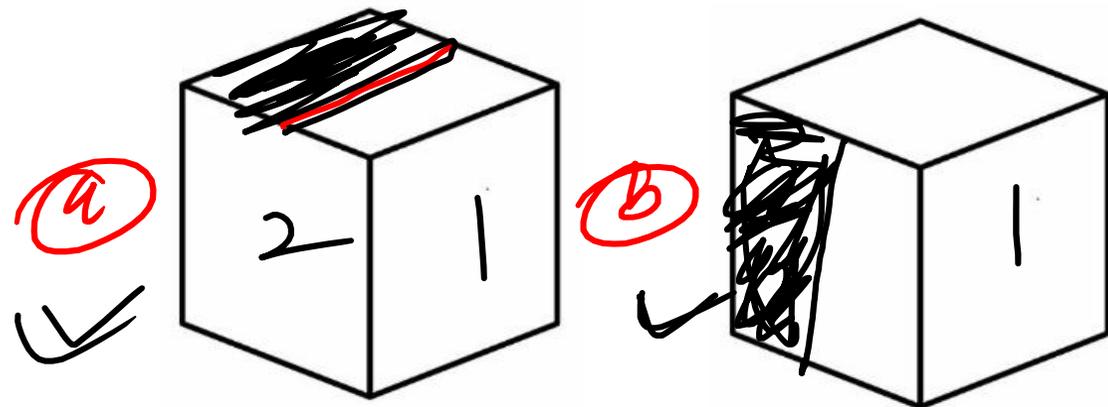
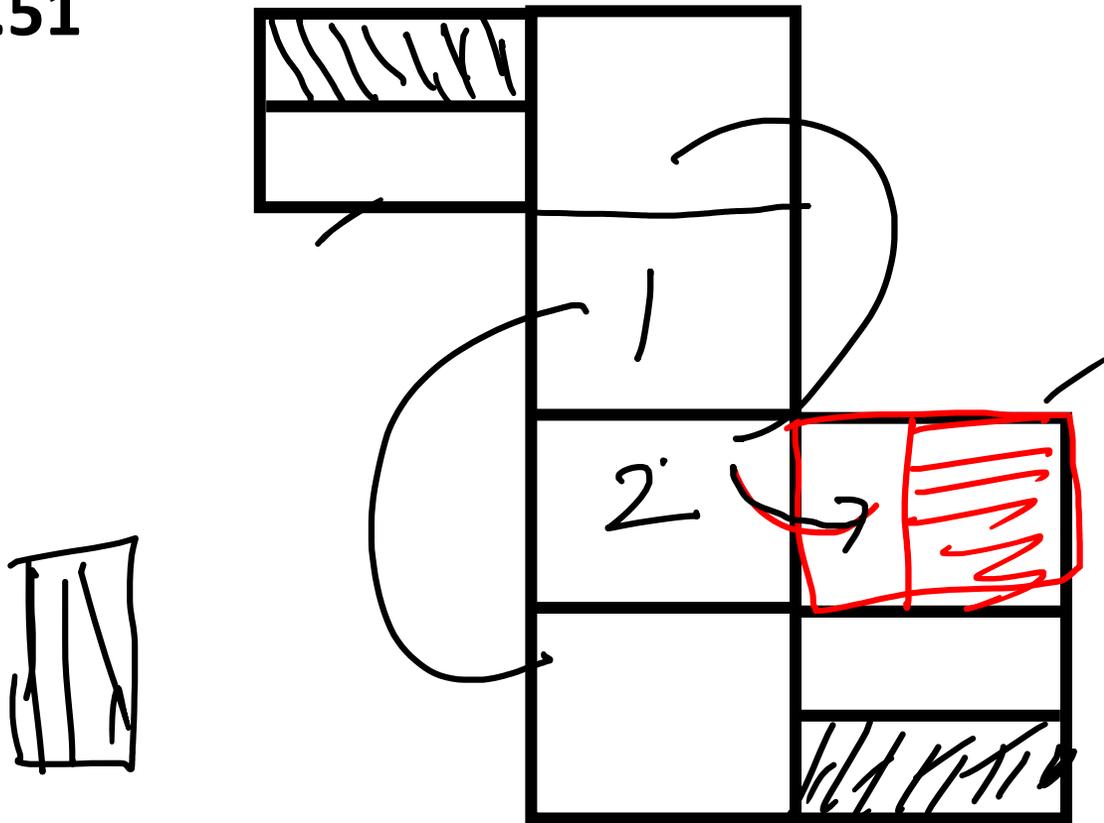


(d) ✓

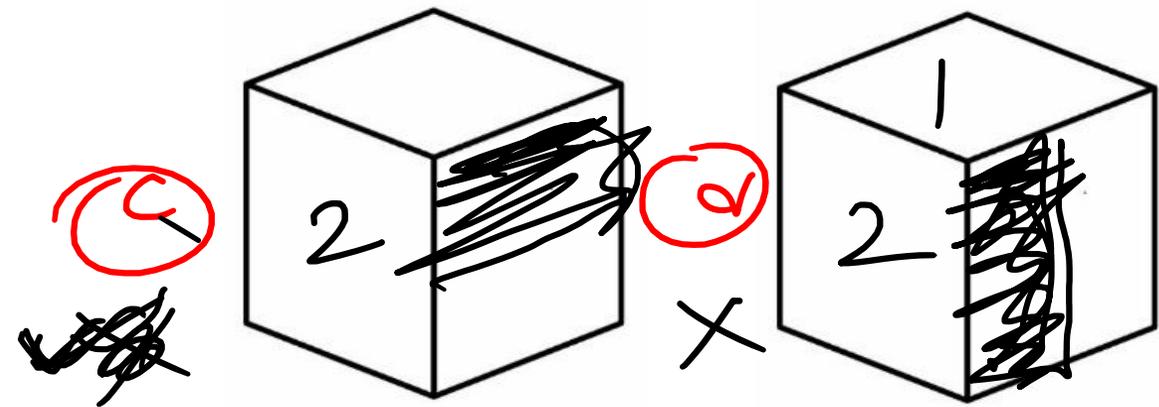


Case-IV (Open Dice)

Q.51

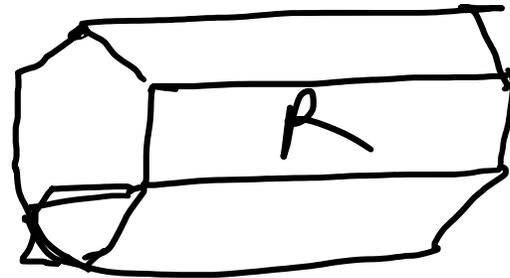
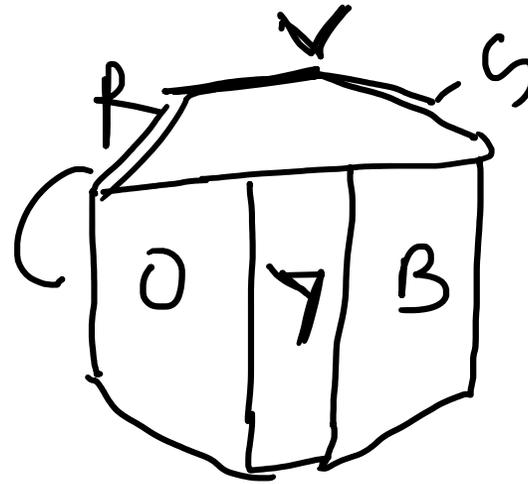
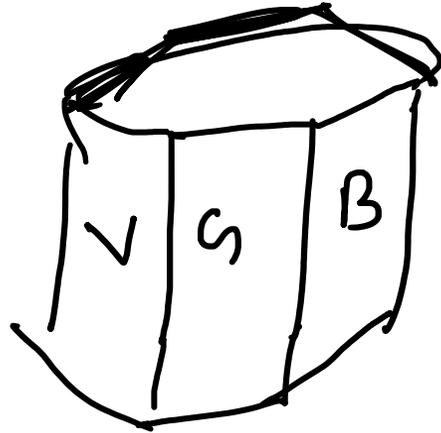


Ans only A, B, C



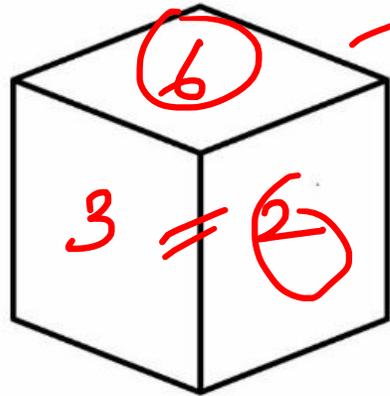
Case-IV (Open Dice)

Q.52

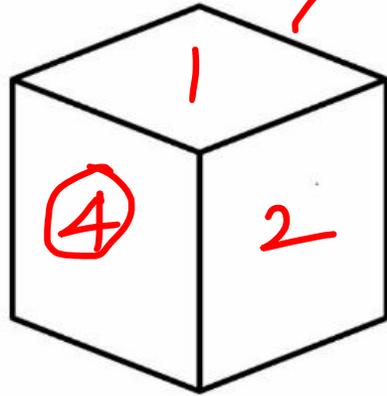


R से touch \Rightarrow
orange &
violet

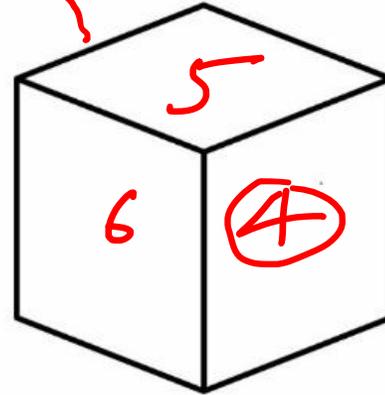
Q.53 Language based question



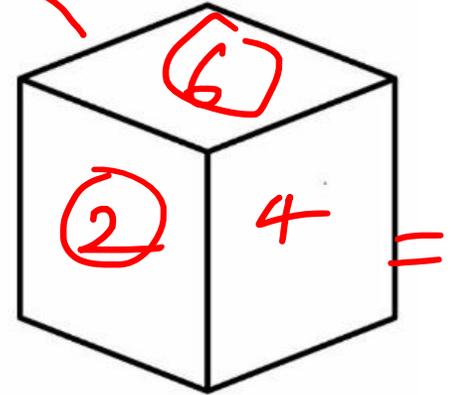
(I)



(II)



(III)



(IV)

कमन

✓ (I) 6 opp - ? (Face - III)

✓ (II) 4 opp ? (Face - I, III, IV)

✓ (III) 3 opp ? (Face - I, II, IV)

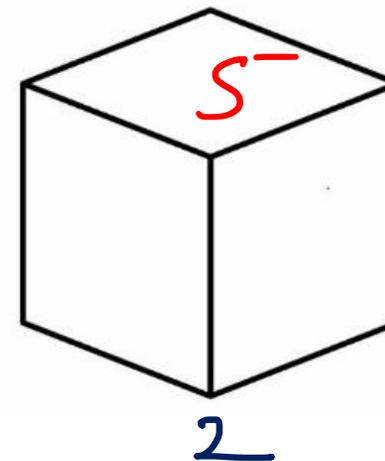
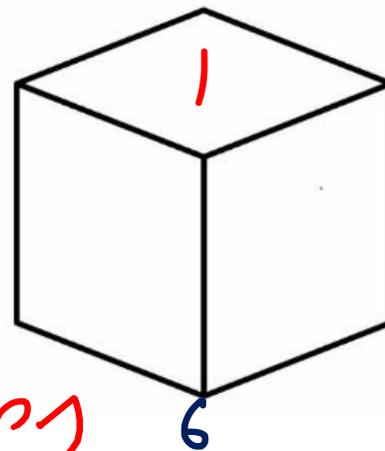
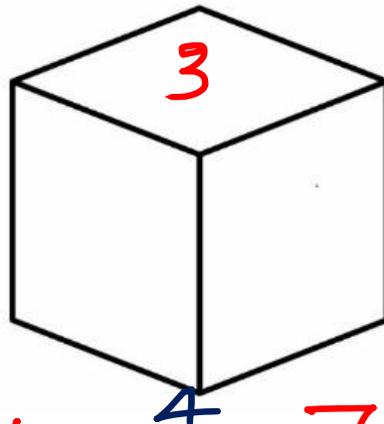
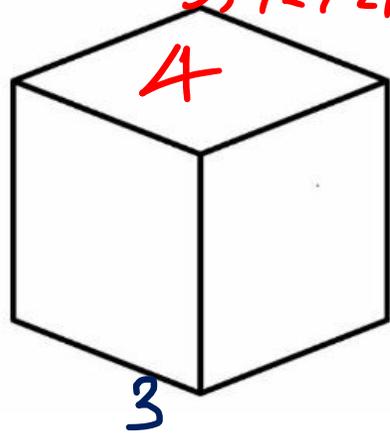
4	1	2
3	6	5

नीचा कमन मध्ये आहे

DICE

Q.54

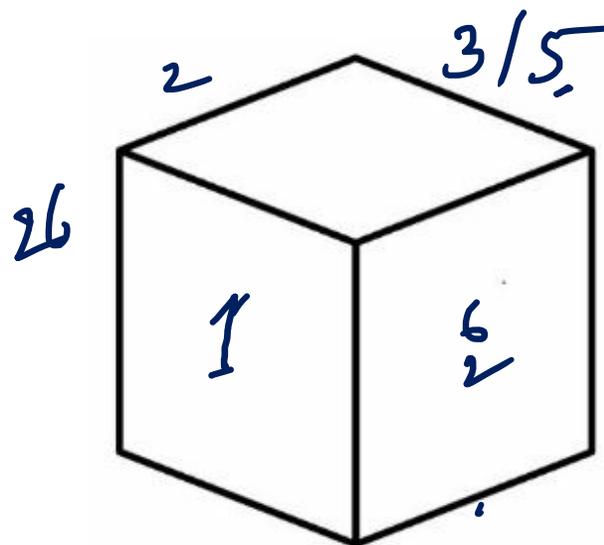
जमीन पर 4 मानक पासे केके ऊपर।
कंप्यूटर का चोरा = 13



standard dice = 7 (opp)

① $3 + 4 + 6 + 2 = 15$ ← Method
 $7 \times 4 = 28 - 13 = \underline{\underline{15}}$ ←

Q.55 यदि 1 संख्या 2, 4 और 6 से सटा हुआ है तब निम्नलिखित में कौन सा कथन सत्य है?



1- 3/5

3/5

1 → 3/5

(a) 2 → 6 - ^{ना}poss

(b) 1 से सटा poss

(c) 3, 5 से सटा ✓

(d) 3 → 5 ^{ना}सही ✗

a) Possibility ✓

b) Possibility ✓

c) True ✓

d) False

3 — 5
सटा
ना ✗

Q.56

opp. surface को छोड़कर बाकी के surface
संबंधित है surface से $\frac{1}{11}$ $\frac{1}{11}$
a) False

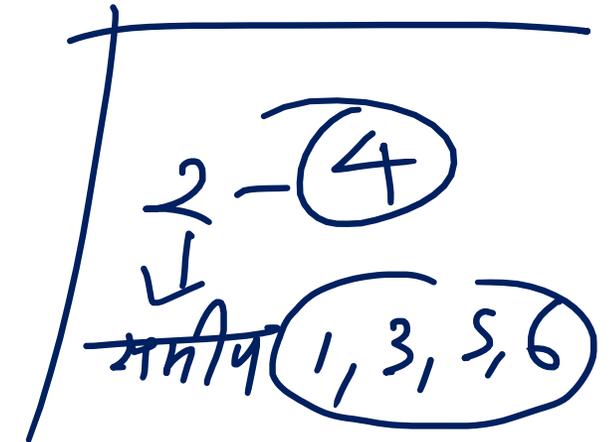
- 1. -5 ✓
- 2. -3 ✓
- 4. -6 ✓

b) True 2 के निकट = 1, 5, 4,

c) False

d) False

✗ (a) 4, 3 और 6 के समीप है ✗
 ✓ (b) 2, 4 और 6 के समीप है ✓
 ✗ (c) 5, 5 और 6 के समीप है ✗
 ✗ (d) 3 और 4 के समीप है ✗



Q.57

1 से सटा -2, 3, 5

1-4/5

(a)

(b)

(c)

(d)

a) True

b) Possibility

c) Possibility

d) Possibility



Q.58



1 के निकट=3,4,5,6

2 के निकट=3,4,5,6

a) True

b) Possibility

c) Possibility

d) Possibility

Total Surface = 6

1 ✓ (a) 2, 6 के समीप है (2 is adjacent to 6)
 ✗ (b) 1, 3, 4 के समीप है
 ✗ (c) 1, 4, 6 के समीप है
 ✗ (d) 3, 5 के समीप है

Q.59

$$\frac{2-3}{}$$

दो डिके सिक्के = 1, 4, 5, 6

(a)

(b)

(c)

(d)

a) Possibility

b) Possibility

c) Possibility

d) True

Q.60 (I) योग=7 (opp. surface)

मानक पासा

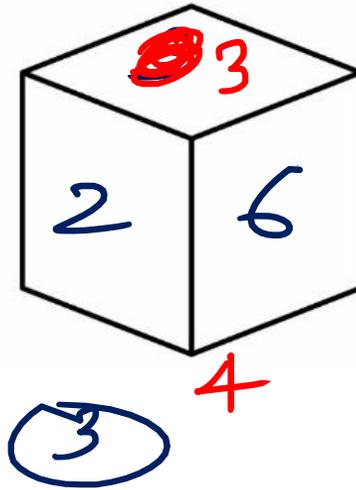
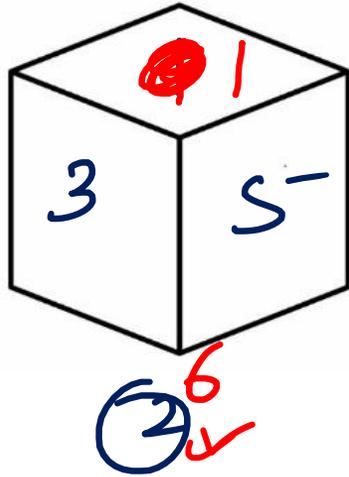
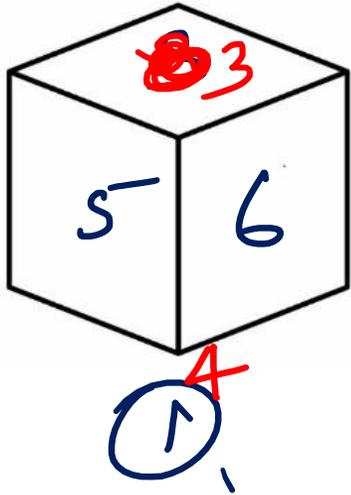
तीनों पासा के नीचली सतह पर सम (Even) संख्या

1 2 3 4

1 2 4 6

1 3 4 6

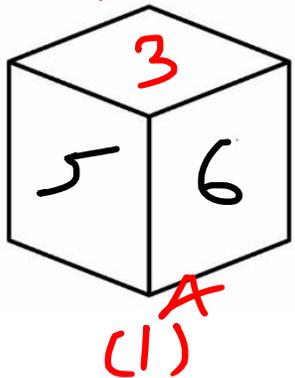
2, 4, 6



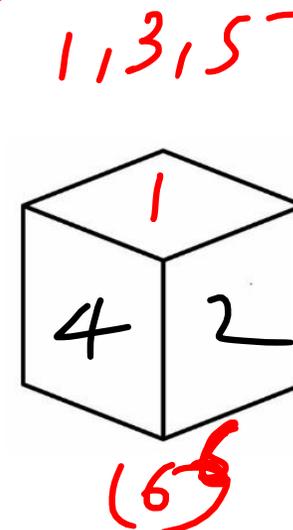
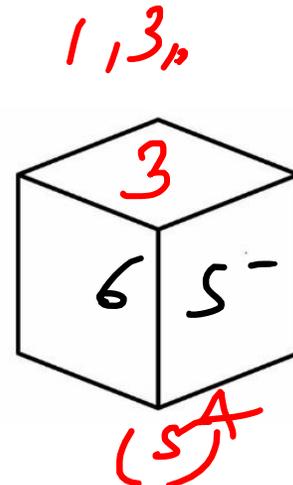
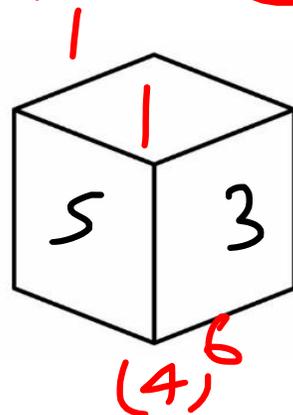
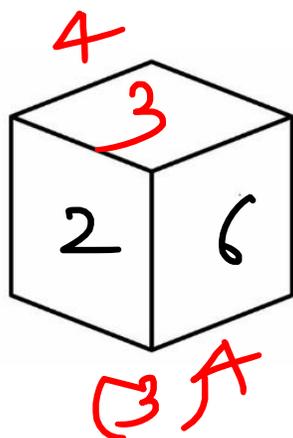
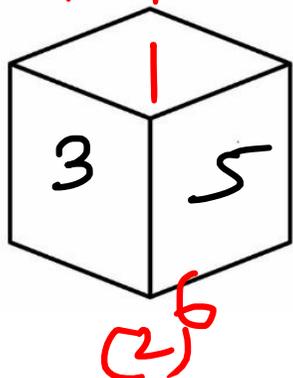
ऊपरी सतहों का कुल योग?

$$3 + 1 + 3 = 7$$

Q.60 (II)
1 2 3 4 5



मानक पासा (standard dice) 1-6
opp. = 7



① 1, 2, 3, 4 के बीच की संख्याएँ पर सम संख्याएँ हैं।

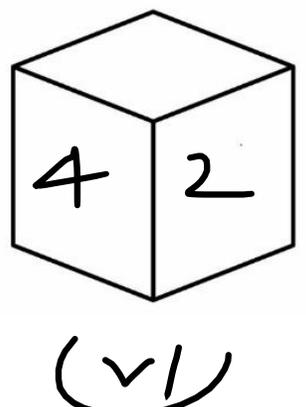
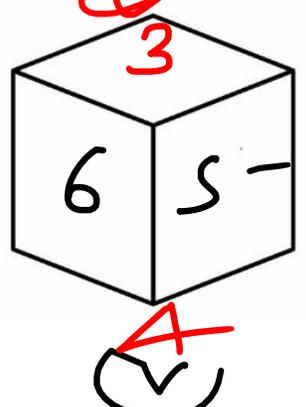
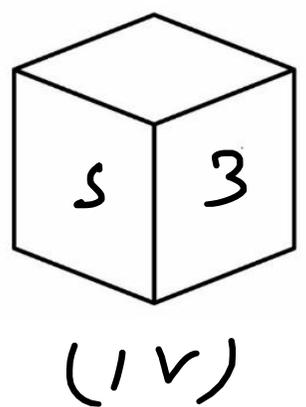
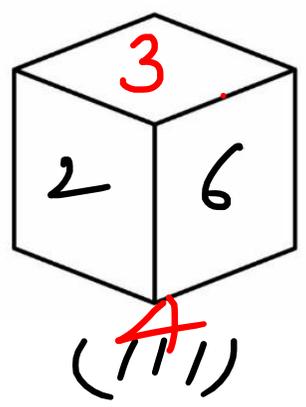
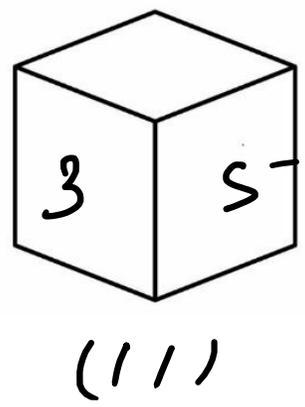
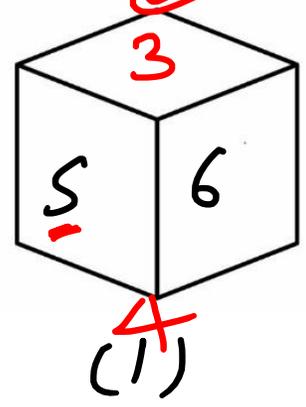
② 4, 5, 6 नो चाहे के 3, 4 को संख्याएँ पर विषम संख्याएँ हैं।

Ans: ऊपरी संख्याएँ पर कुल बिन्दुओं का अंतर बताएँ
 $(3+1+3) - (1+3+1) = 7 - 5 = 2$

DICE

मानक पासा = 7 - opp.

Q.60 (III)



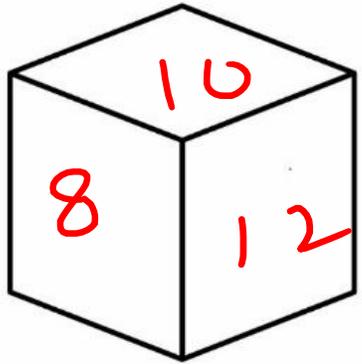
Ans विषम पार्श्व के शरट पर विषम संख्या दी गयी ऊपरी शरट का योग बतायें।
 ऊपरी शरट का योग = $3 + 3 + 3 = 9$

नीचली शरट का योग = $4 + 4 + 4 = 12$

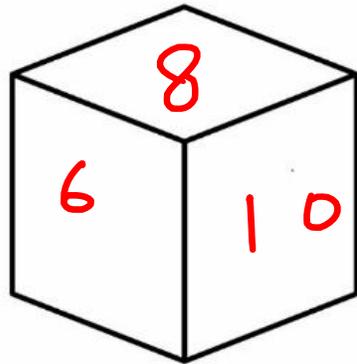
Q.61 If the diff B/W the Odd Number of dots of opp. Surfaces is 6 then?

(यदि सम्मुख सतहों का ~~विषम~~ बिन्दुओं का अंतर 6 है , तो कौन सा विकल्प सही है?)

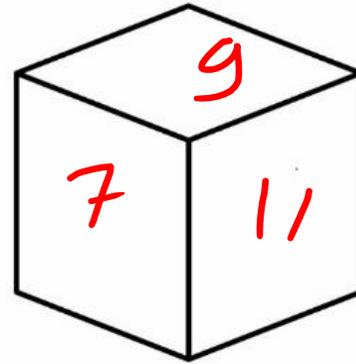
विषम



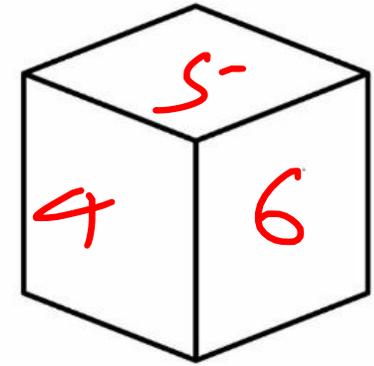
(a)
X



(b)
X



(c)
~~W~~



(d)
X



(e)
X

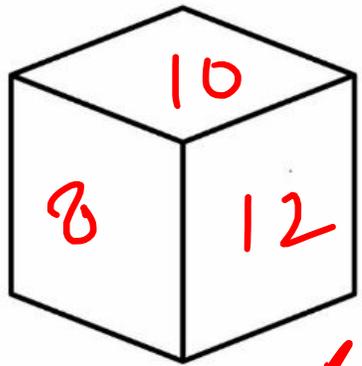
odd dice = 1, 3, 5, 7, 9, 11
Even dice = 2, 4, 6, 8, 10, 12

$1-7 = 6$

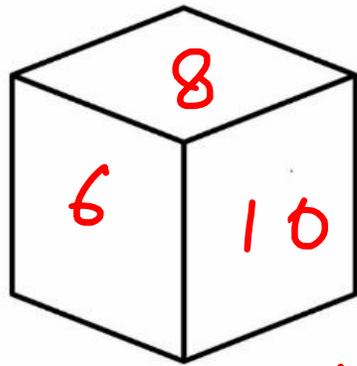
$3-9 = 6$

$5-11 = 6$

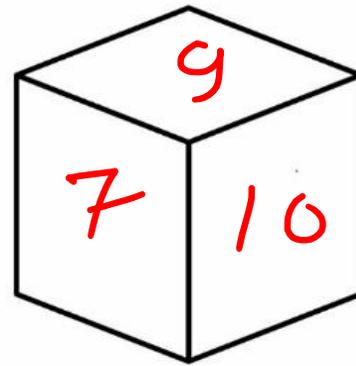
Q.62 If the diff B/W the ~~and~~ Number of dots of opp. Surfaces is 3 then?
 (यदि सम्मुख सतहों का विषय बिन्दुओं का अंतर 3 है, तो कौन सा विकल्प सही है?)



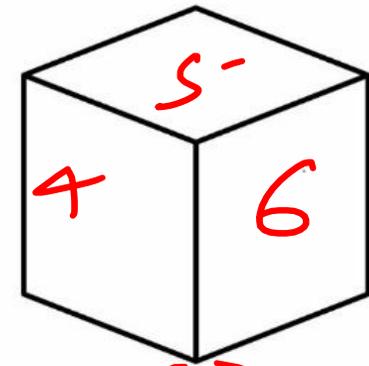
(a) ✗



(b) ✗



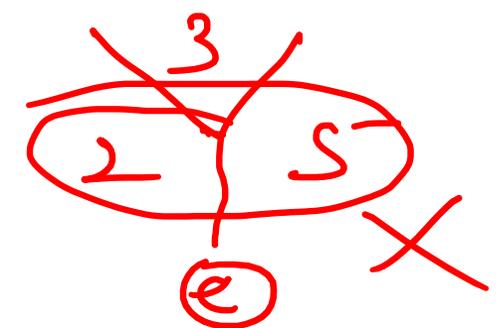
(c) ✗



(d) ✓

DICE = 1, 2, 3, 4, 5, 6

$1 - 4 = 3$
 $2 - 5 = 3$
 $3 - 6 = 3$



SSC - CHSL, CPO, CSL
Railway, Police, Defence
= 100%

=END=



Thanks

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