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OPSC ASO Reasoning Previous Year Question

FREE DEMO

10 Selected Questions (2014 – 2025) with Full Solutions



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OPSC ASO REASONING – 10 SELECTED PYQ

Hand-picked from OPSC ASO Reasoning papers of 2014, 2015, 2019, 2022 and AG ASO 2025 – Easy, Moderate and Hard questions, with the same step-by-step solutions you get in the full pack.

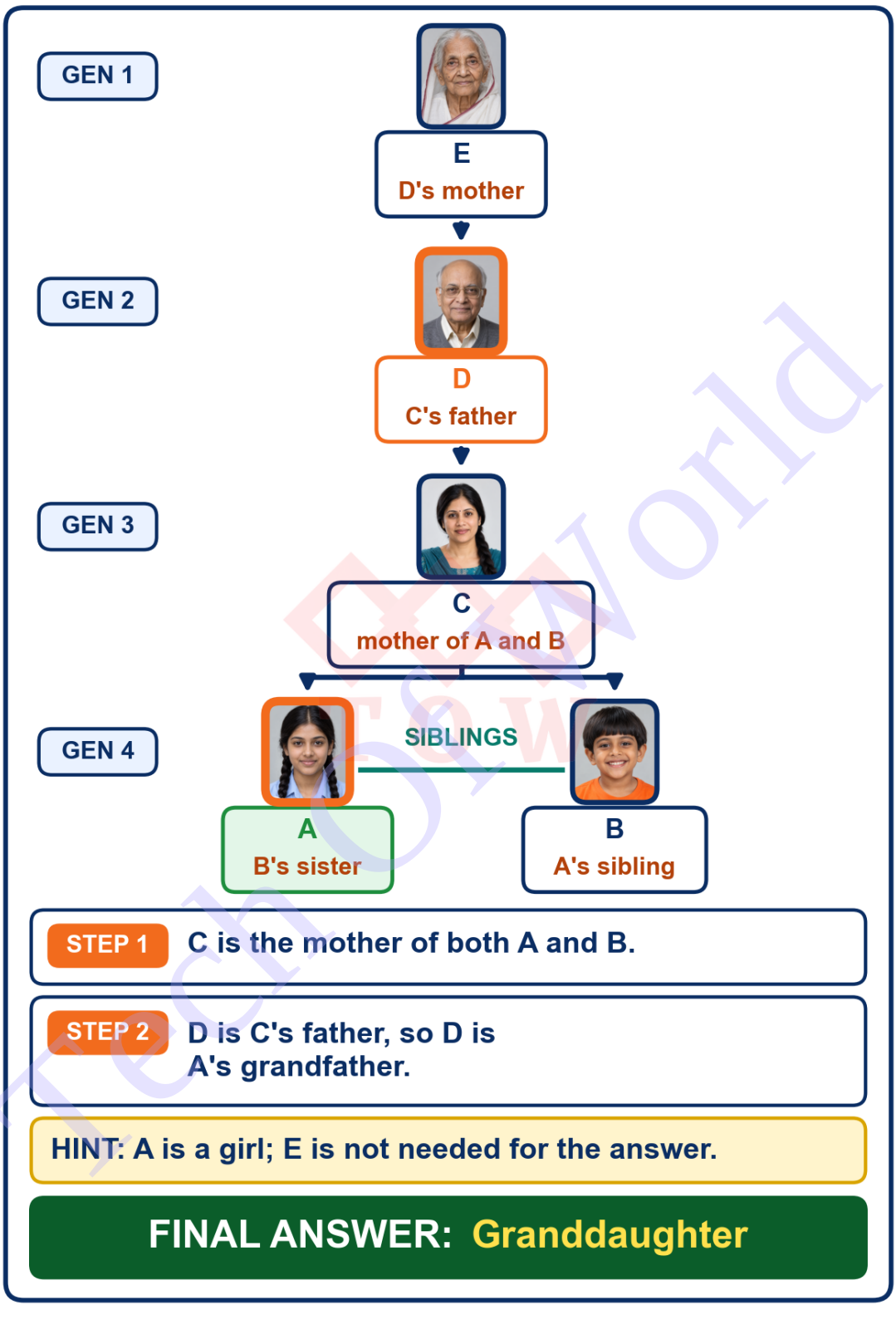
EASY QUESTIONS

Q-1 A is B's sister.
C is B's mother.
D is C's father.
E is D's mother.
Then, how is A related to D?
[OPSC ASO 2019]
(A) Grandfather
(B) Grandmother
(C) Daughter
(D) Granddaughter

Ans- (D) Granddaughter

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Q-2 A man has Rs. 480 in the denominations of one rupee notes, five rupee notes and ten rupee notes. The number of each denomination is equal. What is the total number of notes that he has?

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[OPSC ASO 2014]

(A) 45
(B) 75
(C) 90
(D) 120

ANS- C

Given:
➔ Total money $= 480$ rupees
➔ Number of each kind of note $= n$

Concept:
➔ Money $= n \times 1 + n \times 5 + n \times 10 = 16n$

Solution:
$\rightarrow \ 16n = 480$
$\Rightarrow \ n = 30$
$\rightarrow$ Total notes $= 3n = 3 \times 30$
$\Rightarrow$ Total notes $= 90$
∴ Ans: (C) 90

Hint:
➔ Trap: $n = 30$ is the number of notes of one kind; the question asks for all three kinds.

Q-3 The average of the ages of three persons A, B and C is 45 years and the average age of A, C and D is 51 years.
If the age of D is 56 years, what is the age of B?

[OPSC AG ASO 2025]

(A) 35 years
(B) 38 years
(C) 36 years
(D) 36.5 years

ANS- (B) 38 years

Given:
➔ $\frac{A + B + C}{3} = 45$
➔ $\frac{A + C + D}{3} = 51, \ D = 56$
➔ Find the age of B

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Concept:
➔ Sum of ages = average × number of persons

Solution:
→ $A + B + C = 3 \times 45 = 135$
→ $A + C + D = 3 \times 51 = 153$
⇒ $A + C = 153 - 56 = 97$
→ $B = (A + B + C) - (A + C) = 135 - 97 = 38$
∴ Ans: (B) 38 years

Hint:
➔ Alternative: subtract the two sums, $(A + B + C) - (A + C + D) = B - D = 135 - 153 = -18$
⇒ $B = 56 - 18 = 38$

MODERATE QUESTIONS

Direction : Find out the correct number to fill in the spaces which will continue the same pattern.

Q-4 999, 730, 511, 344, 215, __.
[OPSC ASO 2014]
(A) 123
(B) 124
(C) 125
(D) 126

ANS- D

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WORKING

999 → 730 → 511 → 344 → 215 → 126

10^3-1 9^3+1 8^3-1 7^3+1 6^3-1 5^3+1

Cubes of 10, 9, 8, 7, 6, 5 with −1 and +1 added alternately.

HINT: The next term is $5^3 + 1 = 125 + 1 = 126$.

FINAL ANSWER: 126

Q-5 Choose a correct sequence of ascending order of magnitude.
$2^{12}, 3^8, 4^7, 10^3$:
[OPSC ASO 2015]
(A) $2^{12}, 3^8, 10^3, 4^7$
(B) $10^3, 2^{12}, 4^7, 3^8$
(C) $10^3, 2^{12}, 3^8, 4^7$
(D) $10^3, 4^7, 2^{12}, 3^8$

Ans- (C) $10^3, 2^{12}, 3^8, 4^7$

Given:
➔ $2^{12}, 3^8, 4^7, 10^3$

Concept:
➔ Make the powers comparable: write each number as a power of 2 or work out its value
➔ $4 = 2^2$
⇒ $4^7 = (2^2)^7 = 2^{14}$

Solution:
→ $10^3 = 1000,\ 2^{12} = 4096,\ 3^8 = 6561,\ 4^7 = 2^{14} = 16384$
→ $1000 < 4096 < 6561 < 16384$
⇒ $10^3 < 2^{12} < 3^8 < 4^7$



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∴ Ans: (C) 10^3, 2^{12}, 3^8, 4^7

Hint:

➔ Trap: 4^7 looks small because the base is 4, but $4^7 = 2^{14}$ is the largest here

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Q-6 Each question below has a set of two statements. Each statement has three segments. Choose the alternative where the third segment in a statement can be logically deduced using both the preceding two segments.
(i) Some boys are tall ; all tall persons are smart ; some boys are smart.
(ii) Some boys are tall ; some boys are smart ; boys are either tall or smart.
[OPSC ASO 2015]
(A) Only (i)
(B) Only (ii)
(C) Neither (i) nor (ii)
(D) None of the above

Ans- (A) Only (i)

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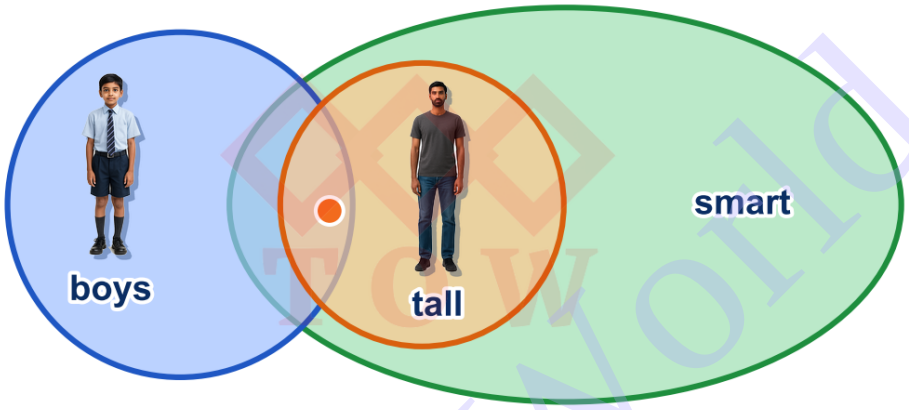
STEP 1 Draw the segments

Set (i). Some boys are tall:

the boys circle overlaps tall (the orange dot).

All tall persons are smart:

the tall circle goes INSIDE smart.



i Third segment: some boys are smart. ✓ VALID

Follow the dot.

It is a tall boy, and every tall person is smart, so some boys are smart.

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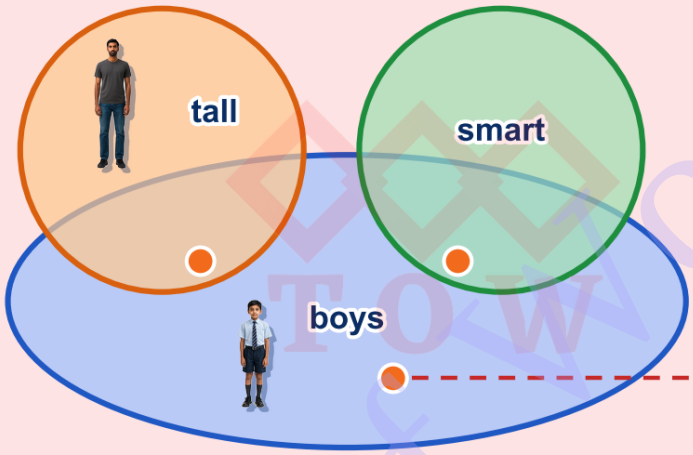
STEP 2 Test the next set

Set (ii). Some boys are tall, some boys are smart:

each tells about only SOME boys. Nothing is said about the other boys.

ii Third segment: boys are either tall or smart.

✗ NOT VALID



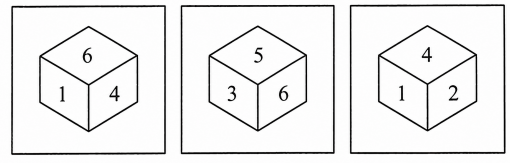
A boy can stay outside both circles.

'Some + Some' proves nothing about every boy.

HINT: 'Some + All' passes the 'some' on. 'Some + Some' never gives a sure result.

FINAL ANSWER: Only (i) is valid

Q-7 Three positions of a dice are given.
Find out which number is found opposite the number 2 in the given cube?



[OPSC ASO 2022]

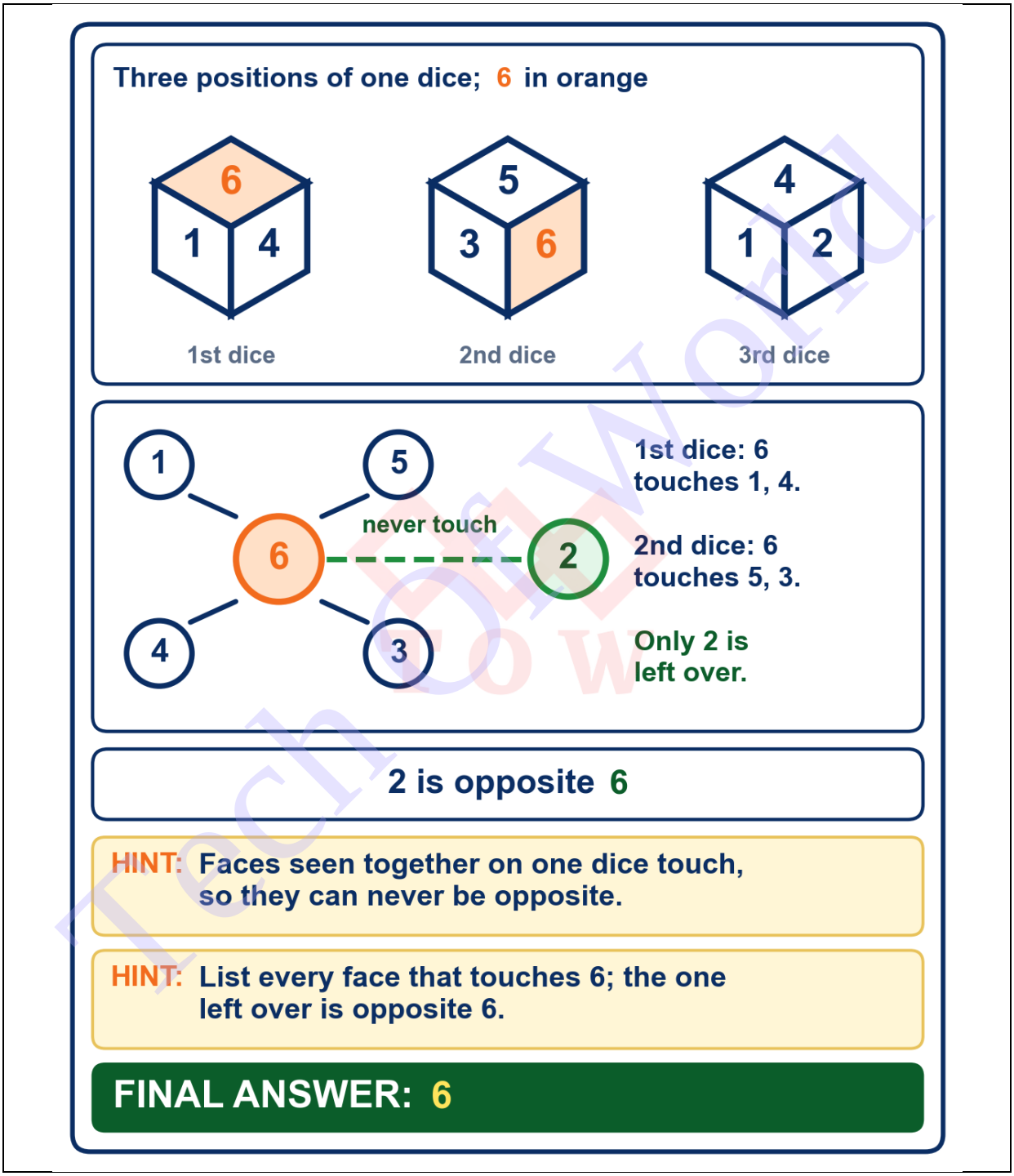
(A) 6

(B) 5

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(C) 3
(D) 1

Ans- (A) 6



Q-8 David gets on the elevator at the 11th floor of a building and rides up at the rate of 57 floors per minute. At the same time, Albert gets on an elevator at the 51st floor of the same building and rides

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down at the rate of 63 floors per minute. If they continue travelling at these rates, then at which floor will their paths cross?

[OPSC ASO 2022]

(A) 19
(B) 28
(C) 30
(D) 37

Ans- (C) 30

Given:
➔ David starts at floor 11, going up at 57 floors/min
➔ Albert starts at floor 51, going down at 63 floors/min

Concept:
➔ Both lifts move for the same time t minutes; they cross when their floors are equal

Solution:
→ David's floor $= 11 + 57t$
→ Albert's floor $= 51 - 63t$
→ $11 + 57t = 51 - 63t$
⇒ $t = \frac{40}{120} = \frac{1}{3}$ min
→ $\text{Floor} = 11 + 57 \times \frac{1}{3} = 30$
∴ Ans: (C) 30

Hint:
➔ Alternative: the gap is $51 - 11 = 40$ floors and the speeds add up to $57 + 63 = 120$; David climbs $40 \times \frac{57}{120} = 19$ floors, so $11 + 19 = 30$

HARD QUESTIONS

Q-9 In a certain code language, 'VIRTUE' is coded as '201' and 'TRAGEDY' is coded as '218'.
How will 'PROFANE' be coded in that language?

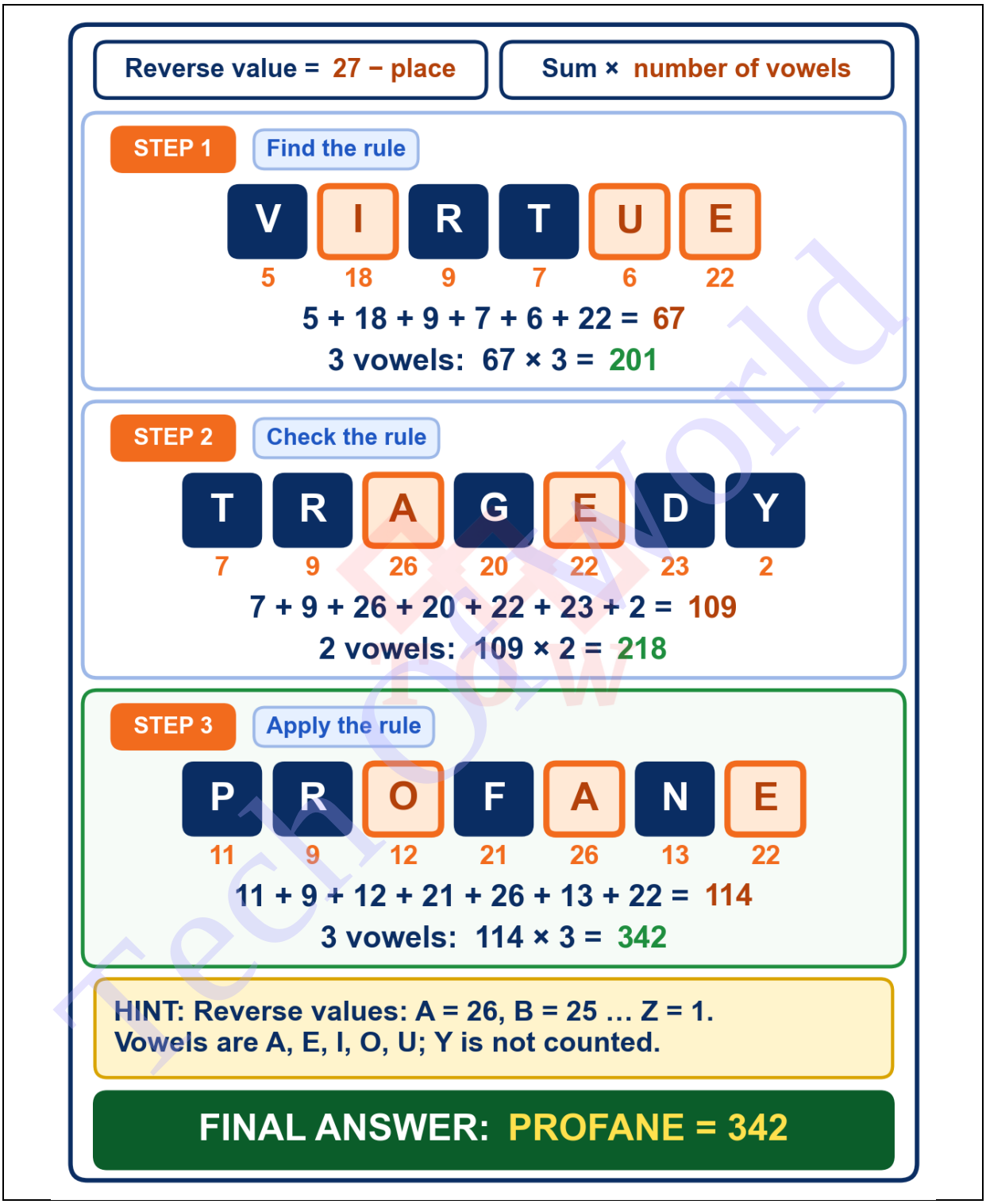
[OPSC ASO 2022]

(A) 570
(B) 342
(C) 432
(D) 456

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Ans- (B) 342



Q-10 There are seven persons A, B, C, D, E, F, and G. Each of them has different heights. C is shorter than only G. The number of persons taller than B is equal to the number of persons shorter than D. Neither A nor E is shortest.

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Who among the following is shortest?

[OPSC AG ASO 2025]

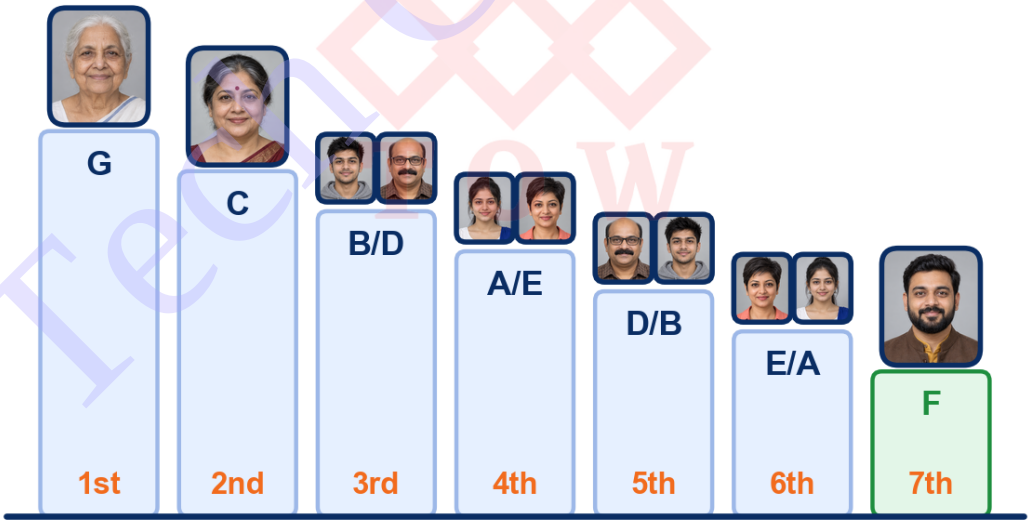
(A) G
(B) D
(C) B
(D) F

ANS- (D) F

STEP 1 C is shorter than only G
→ G is 1st (tallest) and C is 2nd.

STEP 2 Taller than B = shorter than D
→ B's place + D's place = 8.
Places 3 to 7 left: only 3 + 5 works.
→ B and D are 3rd and 5th (either way).

STEP 3 Neither A nor E is shortest
→ A, E are 4th and 6th, so 7th = F.



HINT: If B were last, D would be 1st (and the other way round). G is 1st, so B, D are not last.

FINAL ANSWER: F is the shortest

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