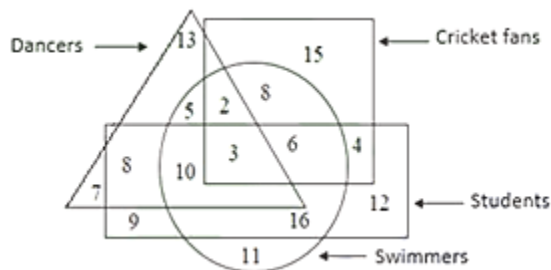


### Reasoning & Military Aptitude Pdf for AFCAT 1 2023

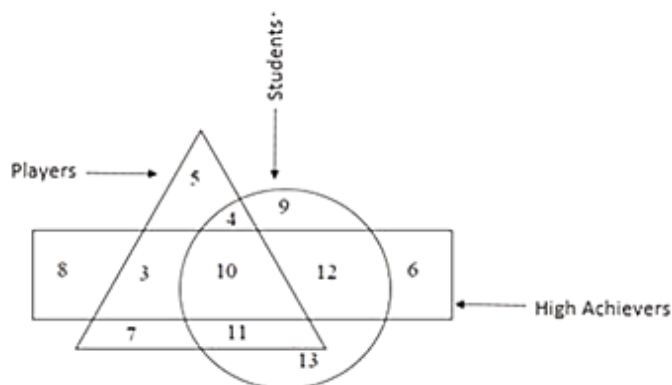
**Q1.** In the following diagram the triangle represents 'dancers', the circle represents 'swimmers' the rectangle represents 'students' and the square represents 'cricket fans'. The numbers in different segments shown the number of persons.



How many students dancers are swimmers but not cricket fans?

- (a) 15
- (b) 10
- (c) 3
- (d) 13

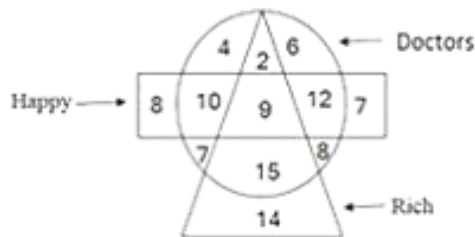
**Q2.** In the following diagram. the (triangle represents 'players'. the circle represents 'students' and the rectangle represents 'high achievers'. The numbers in different segments show the number of persons.



How many high-achieving students are not players?

- (a) 15
- (b) 13
- (c) 12
- (d) 3

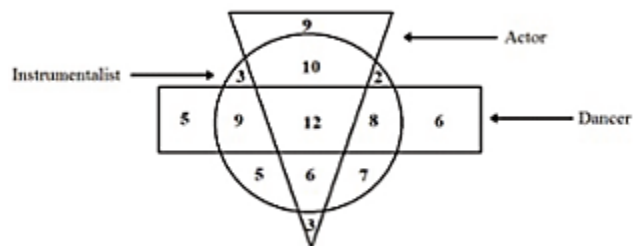
**Q3.** In the following diagram.the triangle represents 'rich', the circle represents 'doctor' and the rectangle represents 'happy' persons. The numbers in different segments show the number of persons.



How many rich doctors are not happy?

- (a) 15
- (b) 26
- (c) 9
- (d) 17

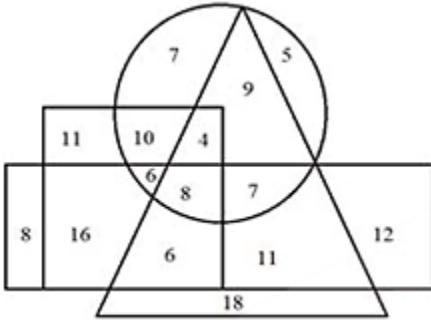
**Q4.** In the following diagram, the triangle represents 'actors', the circle represents 'instrumentalists' and the rectangle represents 'dancers'. The numbers in different segments show the number of persons.



How many dancers are instrumentalists but not actors?

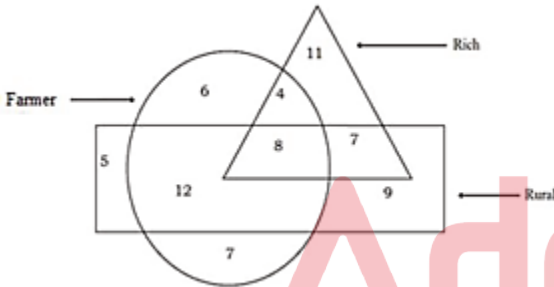
- (a) 21
- (b) 11
- (c) 17
- (d) 20

**Q5.** In the following diagram, the triangle represents 'actors'. the circle represents 'male', the rectangle represents 'painters' and the square represents 'artists'. The numbers in different segments show the number of persons.



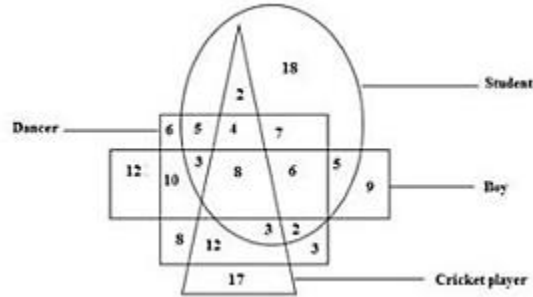
How many male actors are painters but not artists?  
 (a) 13  
 (b) 7  
 (c) 8  
 (d) 15

**Q6.** In the following diagram, the triangle represents 'rich'. the circle represents 'Farmer' and the rectangle represents 'rural'. The numbers in different segments show the number of persons.



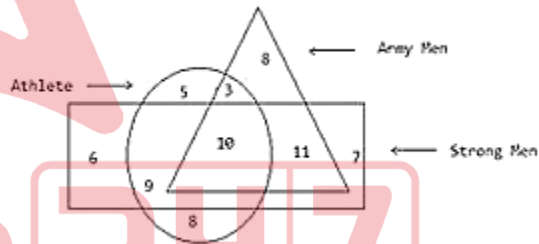
How many rich Farmers are not rural?  
 (a) 8  
 (b) 4  
 (c) 12  
 (d) 7

**Q7.** In the following diagram, the triangle represents 'cricket players', the circle represents 'students', the rectangle represents 'boys' and the square represents 'dancers'. The number in different segments show the number of persons.



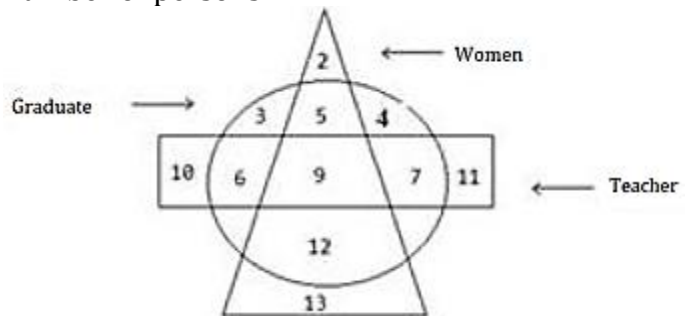
How many students are dancers and cricket players but not boys?  
 (a) 7  
 (b) 12  
 (c) 4  
 (d) 16

**Q8.** In the following diagram, the triangle represents 'army men', the circle represents 'athletes' and the rectangle represents 'strong men'. The numbers in different segments show the number of persons.



How many strong army men are not athletes?  
 (a) 13  
 (b) 19  
 (c) 11  
 (d) 10

**Q9.** In the following diagram, the triangle represents 'women', the circle represents 'graduates' and the rectangle represents 'teachers'. The numbers in different segment show the number of persons.



6 Months Validity

# DEFENCE

## KA MAHAPACK

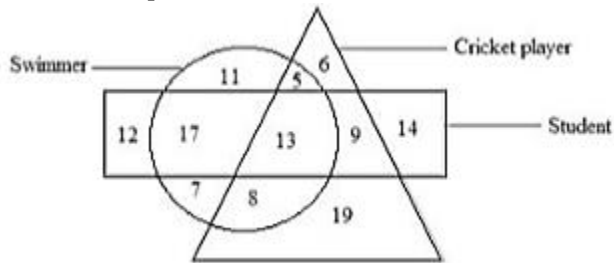
Test Series, Live Classes,  
Video Course, Ebooks

### Bilingual

How many women graduates are not teachers?

- (a) 9
- (b) 12
- (c) 17
- (d) 5

**Q10.** In the following diagram, the triangle represents 'cricket players', the circle represents 'swimmers' and the rectangle represents 'students'. The numbers in different segments show the number of persons.



How many students are swimmers but not cricket players?

- (a) 17
- (b) 8
- (c) 13
- (d) 18

**Q11.** In a code language, BANKER is written as NABREK. How will STRING be written as in that language?

- (a) RSTGIN
- (b) RTSGNI
- (c) TSIRGN
- (d) RTGSNI

**Q12.** If CAB = 12 and FED = 30, then HIDE =

- (a) 44
- (b) 68
- (c) 52
- (d) 48

**Q13.** In a code language, QUESTION is written as OPJUTFVR. How will FACTOR be written as in that language?

- (a) SUPEGB
- (b) BGDSPU
- (c) SPUDBG
- (d) QPUDBE

**Q14.** If HECK is coded as 94410 and DIG is coded as 588, then how will BIKE be coded as?

- (a) 38124
- (b) 38115
- (c) 19113
- (d) 39105

**Q15.** If FAKE is coded as 52106 and MAD is coded as 1223, then how will DEER be coded as?

- (a) 35418
- (b) 36420
- (c) 36419
- (d) 47520

**Q16.** In a code language, MACHTNE is written as CAMHENI. How will MONSTER be written as in that language?

- (a) NOMSRET
- (b) OMNSETR
- (c) NOMETSR
- (d) SNOMRET

**Q17.** In a code language, BACHELOR is written as SNMDIBBA. How will COHESION be written as in that language?

- (a) ONIFTJBP
- (b) ONJRFGPB
- (c) NPHTDIND
- (d) BPJTFINO

**Q18.** If CAB = 13 and FEED = 41, then JADE = \_\_\_\_\_

- (a) 35
- (b) 43
- (c) 41
- (d) 45

**Q19.** If DIG = 41 and GOAD = 55, then FACT = \_\_\_\_\_

- (a) 45
- (b) 61
- (c) 53
- (d) 63

**Q20.** In a code language, CONCERT is written as CNEROCT. How will SMARTER be written in that language?

- (a) RATESMR
- (b) RATEMSR
- (c) RATMESR
- (d) RETRAMS

**Q21.** Which number will replace the question mark (?) in the following series?

7, 9, 13, 15, ?, 21, 25

- (a) 18
- (b) 20
- (c) 17
- (d) 19

**Q22.** Which number will replace the question mark (?) in the following series?

5, 7, 11, 14, 23, ?, 43, 48

- (a) 27
- (b) 39
- (c) 31
- (d) 26

**Q23.** Which number will come next in the following series ?

1, 4, 4, 16, 64, \_\_\_\_\_

- (a) 215
- (b) 1024
- (c) 128
- (d) 1026

**Q24.** Which number will come next in the following series ?

3, 7, 16, 32, 57, \_\_\_\_\_

- (a) 85
- (b) 80
- (c) 98
- (d) 93

**Q25.** Which number in the given series is incorrect?  
3, 7, 7, 11, 9, 13, 13, 17, 15, 23

- (a) 17
- (b) 9
- (c) 23
- (d) 13

**Q26.** Which number will come next in the following series?

136, 137, 135, 138, 134, 139, \_\_\_\_\_

- (a) 136
- (b) 138
- (c) 139
- (d) 133

**Q27.** Which number will come next in the following series?

1, 2, 5, \_\_\_\_\_, 677

- (a) 11
- (b) 26
- (c) 95
- (d) 25

**Q28.** Which number will come next in the following series?

5, 12, 31, 68, 129, \_\_\_\_\_

- (a) 220
- (b) 218
- (c) 131
- (d) 190

**Q29.** Which number will come next in the following series?

9, 196, 25, 169, 49, 144, 81, \_\_\_\_\_

- (a) 121
- (b) 100
- (c) 64
- (d) 36



**Q30.** Which number will replace the question mark (?) in the following series?

1, 5, 5, 25, ?, 3125

- (a) 215
- (b) 125
- (c) 225
- (d) 375

**Q31.** Which number will replace the question mark (?) in the following series?

3, 5, 7, 8, 15, ?, 31, 26

- (a) 24
- (b) 14
- (c) 21
- (d) 18

**Q32.** Which number will replace the question mark (?) in the following series?

7, 10, 16, 19, 25, ?

- (a) 29
- (b) 33
- (c) 31
- (d) 28

**Q33.** Which fraction will replace the question mark (?) in the following series?

$\frac{1}{4}, \frac{3}{5}, \frac{6}{7}, \frac{10}{11}, ?$

- (a) 15/23
- (b) 15/19
- (c) 17/27
- (d) 17/21

**Q34.** Which number will replace the question mark (?) in the following series?

0, 1, 5, 14, 30, ?

- (a) 43
- (b) 53
- (c) 55
- (d) 56

**Q35.** Which number will replace the question mark (?) in the following series?

4, 10, 18, 38, ?, 150

- (a) 78
- (b) 74
- (c) 84
- (d) 70

**Q36.** Which number will replace the question mark (?) in the following series?

3, 4, 7, 11, 18, ?

- (a) 21
- (b) 15
- (c) 29
- (d) 31

**Q37.** Which number will replace the question mark (?) in the following series?

3, 7, 13, 27, ?, 107, 213

- (a) 63
- (b) 53
- (c) 58
- (d) 49

**Q38.** Which number will replace the question mark (?) in the following series?

1, 3, 4, 7, ?, 18, 29

- (a) 10
- (b) 13
- (c) 15
- (d) 11

**Q39.** Which number will replace the question mark (?) in the following series?

1, 2, 6, 12, ?, 72, 216

- (a) 24
- (b) 32
- (c) 36
- (d) 48

**Q40.** Which number will replace the question mark (?) in the following series?

3, 5, 10, 18, 29, ?, 60

- (a) 46
- (b) 37
- (c) 45
- (d) 43

# Solutions

S1. Ans.(b)

Sol. 10

S2. Ans.(c)

Sol. 12

S3. Ans.(d)

Sol.  $15 + 2 = 17$

S4. Ans.(c)

Sol.  $8 + 9 = 17$

S5. Ans.(b)

Sol. 7

S6. Ans.(b)

Sol. 4

S7. Ans.(a)

S8. Ans.(c)

S9. Ans.(c)

S10. Ans.(a)

Sol. 17

S11. Ans.(b)

Sol.



S12. Ans.(c)

Sol.

**CAB**

$$3 + 1 + 2 = 6 \times 2 = 12$$

**FED**

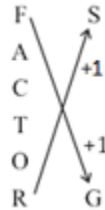
$$6 + 5 + 4 = 15 \times 2 = 30$$

**HIDE**

$$8 + 9 + 4 + 5 = 26 \times 2 = 52$$

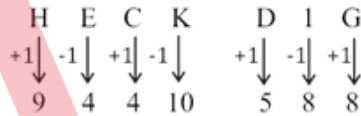
S13. Ans.(c)

Sol.

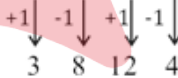


S14. Ans.(a)

Sol.

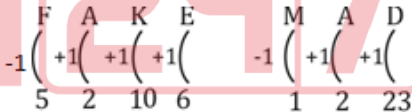


**B I K E**

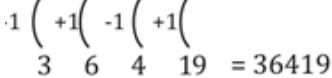


S15. Ans.(c)

Sol.

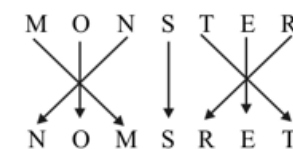
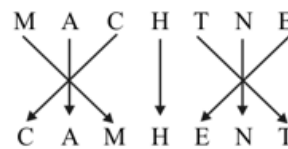


**D E E R**



S16. Ans.(a)

Sol.



6 Months Validity

## DEFENCE

### KA MAHAPACK

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**Bilingual**



S17. Ans.(b)

Sol.



This cycle is going on +1 and -1.

S18. Ans.(c)

Sol.

$$CAB = 13$$

$$(3 + 1 + 2) \times 2 + 1$$

$$FEED = 41$$

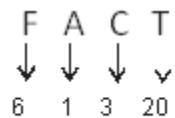
$$(6 + 5 + 5 + 4) \times 2 + 1$$

$$JADE$$

$$(10 + 1 + 4 + 5) \times 2 + 1 = 41$$

S19. Ans.(b)

Sol.

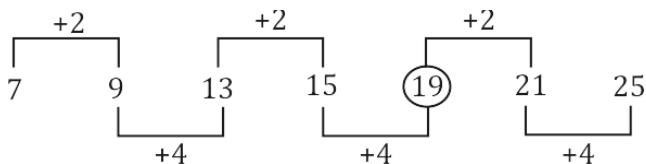


$$2(6 + 1 + 3 + 20) + 1 = 61$$

S20. Ans.(b)

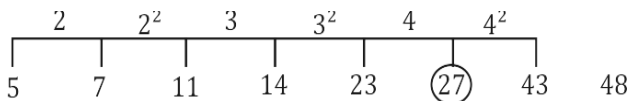
S21. Ans.(d)

Sol.



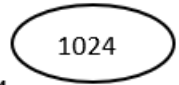
S22. Ans.(a)

Sol.



S23. Ans.(b)

Sol.

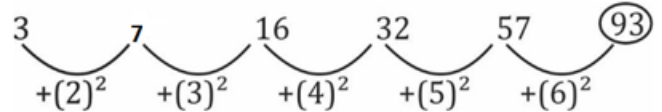


1, 4, 4, 16, 64

Multiply previous number to make next number.

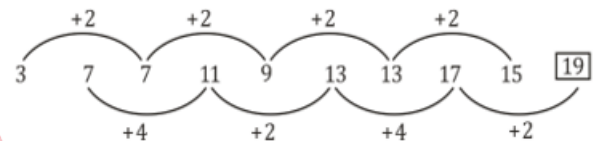
S24. Ans.(d)

Sol.



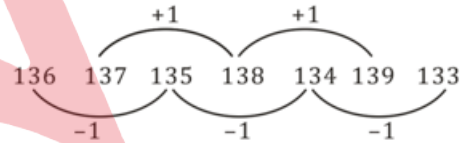
S25. Ans.(c)

Sol.



S26. Ans.(d)

Sol.



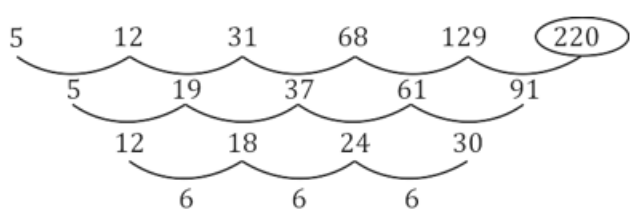
S27. Ans.(b)

Sol.



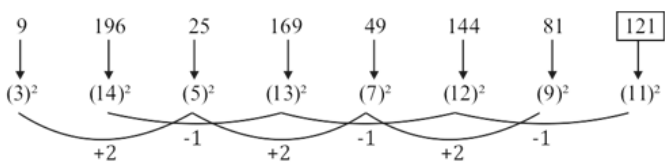
S28. Ans.(a)

Sol.



S29. Ans.(a)

Sol.



S30. Ans.(b)

Sol.  $1 \times 5 = 5$

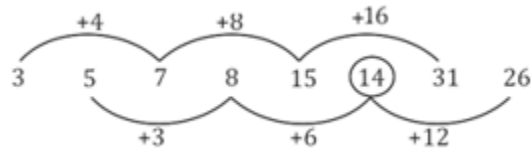
$5 \times 5 = 25$

$25 \times 5 = 125$

$125 \times 25 = 3125$

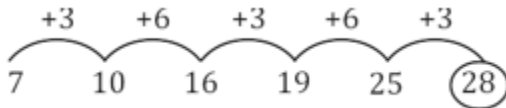
S31. Ans.(b)

Sol.



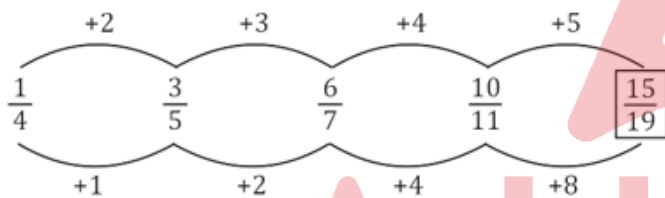
S32. Ans.(d)

Sol.



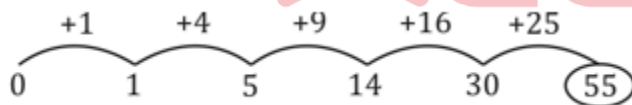
S33. Ans.(b)

Sol.



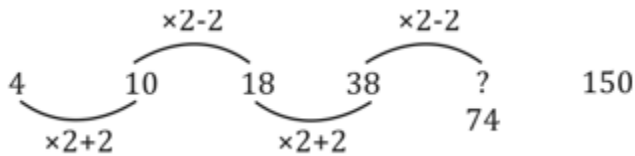
S34. Ans.(c)

Sol.



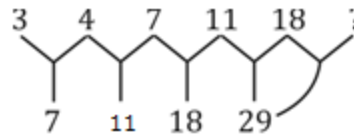
S35. Ans.(b)

Sol.



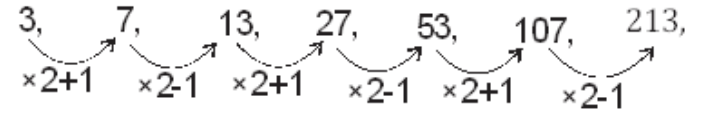
S36. Ans.(c)

Sol.



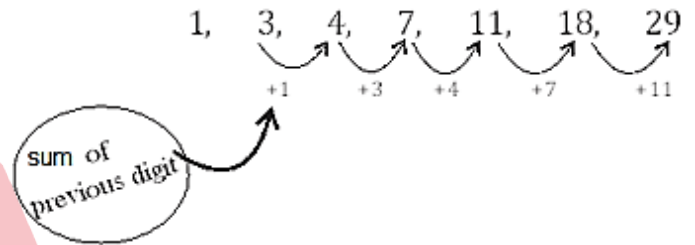
S37. Ans.(B)

Sol.



S38. Ans.(D)

Sol.

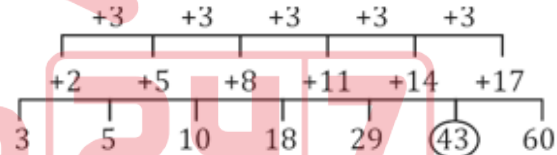


S39. Ans.(C)

Sol.  $\times 2, \times 3, \times 2, \times 3$  series

S40. Ans.(d)

Sol.



12 Months Subscription

# DEFENCE TEST PACK

Useful for NDA | CDS | AFCAT | Others

Bilingual