

SECTION - A

1. Find the next term for the given series.

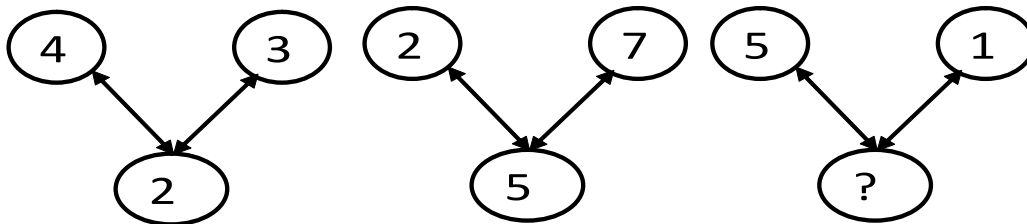
{BPL}, {CQM}, {DRN}, {ESO}, { ? }

- | | |
|--------|--------|
| a. QBT | b. FTP |
| c. TTP | d. TFP |

2. In a certain code language ‘ku fe te po’ means ‘He is eating now’, ‘te sa ku’ means ‘eating is necessary’, ‘pa no it’ means, ‘He was serious’ and ‘ti te re means ‘is work was’, on the basis of the above information, the code of which of the following words can definitely be found?

- a. necessary
 b. eating
 c. he
 d. all of the these

3. In the following figures which number comes in place of question mark.



- | | |
|-------|-------|
| a. 27 | b. 25 |
| c. 26 | d. 30 |

4. The table below shows the cricket players and their scores and averages. Study the table and answer the following questions.

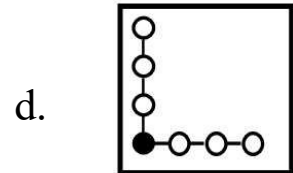
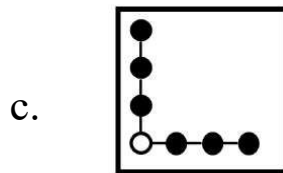
Players	Run in I match	Runs in II match	Runs in III match	Average
Irfan Pathan	20	10	15	15
Virat Kohli	50	15	40	35
Rohit Sharma	25	20	30	25
M.S. Dhoni	55	75	45	58.33
Zaheer Khan	15	30	25	23.33

Which of the player ranked 3rd on the basis of averages?

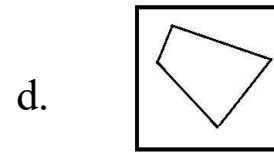
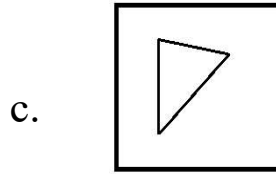
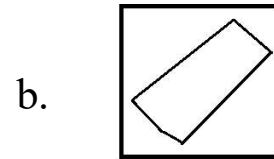
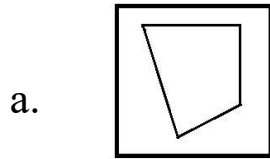
- a. M.S. Dhoni b. Virat Kohli
c. Irfan Pathan d. Rohit Sharma

5. The bus for Meerut leaves every 25 min. An enquiry clerk told that last bus for Meerut had already left 10 min to 2:00 pm. At what time the next bus will leave for Meerut?

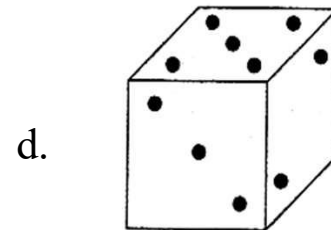
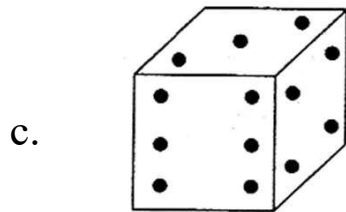
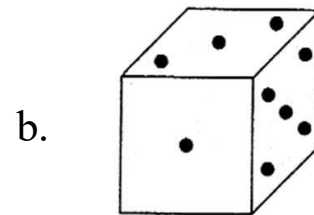
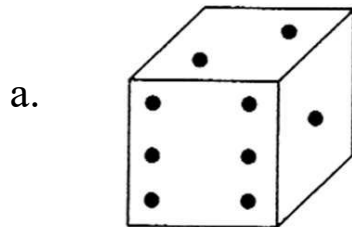
- a. 2:05 pm b. 2.25 pm
c. 2:15 pm d. 2:40 pm



6. Three of the four pieces below can be fitted together to form a perfect square. Which one of the m is odd piece?



7. Given that the total number of dots present on opposite faces of a die is always 7, find the figure which is correct.



SECTION - B

8.
$$\sqrt{\frac{3^{20} + 27^6}{3^{14} + 3^{10} \times 9}} = ?$$

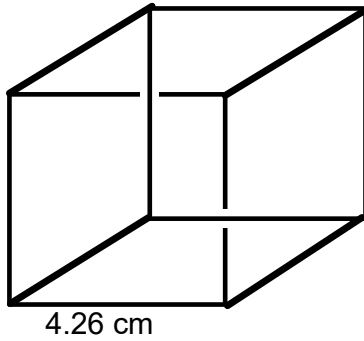
a. 9

b. 27

c. 243

d. 81

9. The volume of the cube shown in the figure is



- a. 77.31 cm^3
- b. 77.30 cm^3
- c. 77.32 cm^3
- d. 77.34 cm^3

10. In a meet, persons from five different places have assembled in Bangalore High School. From the five places the persons come to represent are 480, 248, 388, 320 and 360. What is the minimum number of rooms that would be required to accommodate so that each room has the same number of occupants and occupants are all from the same places?

- a. 449
- b. 629
- c. 815
- d. 965

11. The degree of $\left(-\frac{1}{20}x^4y^3\right) \times (-5x^7y^2)$ is

- a. 11
- b. 5
- c. 16
- d. 6

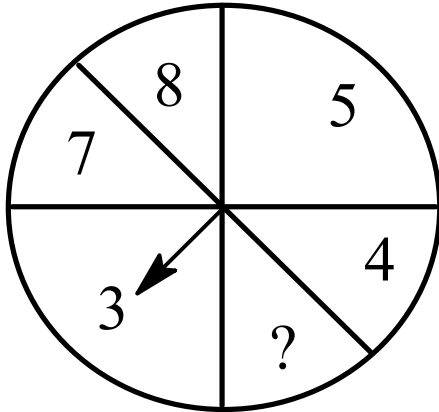
12. 12 men, working 8 hours a day, complete a piece of work in 10 days. To complete the same work in 8 days, working 15 hours a day, the number of men required, is

- a. 4
- b. 5
- c. 6
- d. 8

13. Arun took a loan of Rs 390625 from Kuber Finance. If the company charges interest at 16% per annum, compounded quarterly, what amount will discharge his debt after one year ?

- a. Rs 456956
- b. Rs 456966
- c. Rs 456975
- d. Rs 456978

14. The probability of spinning an even number is $\frac{1}{02}$. The probability of spinning a prime number is $\frac{4}{06}$. What is the missing number on the spinner?



- a. 2
b. 1
c. 6
d. 9
15. Ana runs a merchandiser store. She wants to buy 500 note books for her store. She will get 300 note books for \$2500. next 200 note books are for \$4 per notebook. If total cost for note books is \$3300 and 12% discount is given then total cost for note books is
- a. \$2,560
b. \$2,904
c. \$2,850
d. \$2890

SECTION - C

16. A student is asked to factorise the expression $6x^2 - 30x + 6$ and after factorising, he found his answers are 6, $(x + 3)$ and $(x + 2)$. Another student while factorising same expression found that the

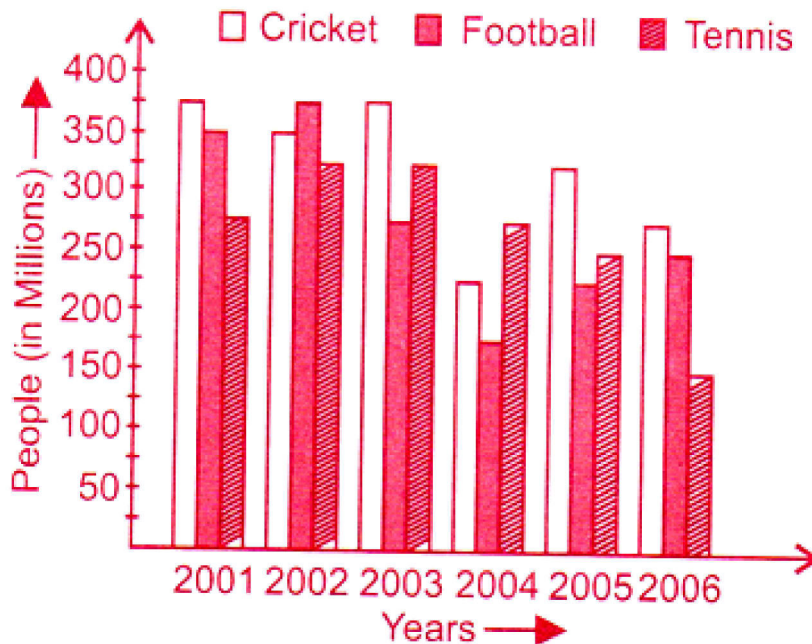
first student has made a mistake and after correcting it, he gave the right answer. What were the correct factors?

- a. $(x + 3)(x - 3)$ b. $(x - 3)(x + 2)$
c. $(x - 3)(x - 2)$ d. No error

17. Study the given bar graph.

Preferences of People in Playing Different Games Over the Year.

What is the ratio of the number of people preferring to play Cricket to the number of people preferring to play Tennis in the Year 2003?



- a. 14 : 15 b. 15 : 13
c. 15 : 17 d. 13 : 15

18. Which of the following steps is INCORRECT while constructing a quadrilateral ABCD, given that $AB = 5$ cm, $BC = 7$ cm, $AD = 4$ cm, diagonal $AC = 9$ cm and diagonal $BD = 6$ cm.

1. Draw $AB = 5$ cm.
2. With A and B as centres and 4 cm and 6 cm as radii respectively, draw arcs to cut each other at D.

- i. ___ is charged on the sale of an item by the government and is added to the bill amount.
- ii. ___ A vendor losses the selling price of 4 oranges on selling 36 oranges. His loss % is ___.
- iii. ___ A vendor losses the selling price of 4 oranges on selling 36 oranges. His loss % is ___.
- iv. ___ The marked price of an article when it is sold for Rs. 880 after a discount of 12%, is _____.
- v. 5% sales tax is charged on an article marked Rs. 200 after allowing a discount of 5%, then amount payable is ____.
- codes.

	I	II	III	IV	V
a.	(ix)	(ii)	(vi)	(vii)	(viii)
b.	(i)	(ii)	(vi)	(vii)	(viii)
c.	(iv)	(vii)	(vi)	(vii)	(viii)
d.	(ii)	(iv)	(vi)	(vii)	(viii)

22. Match the following :

List I		List II	
A. Rectangle	i.	All sides are equal	
B. Square	ii.	Opposite sides are equal and all angles are 90o.	
C. Rhombus	iii.	All sides are equal and all Angles are 900.	
D. Trapezium	iv.	One pair of opposite sides are parallel.	

Codes

	A	B	C	D
a.	(i)	(ii)	(iii)	(iv)
b.	(ii)	(iii)	(i)	(iv)
c.	(ii)	(i)	(iii)	(iv)
d.	(iv)	(iii)	(ii)	(i)