

1. Kapil, Lily, and Maya made a table of their history quiz grades during the grading period. Which matrix best organizes the data?

|       |   |   |   |   |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|
| Kapil | B | B | C | C | B | A | B | A | C | B | C | B |
| Lily  | C | A | B | C | A | A | C | B | B | B | C | A |
| Maya  | A | A | A | A | B | A | B | B | A | A | A | B |

A. 
$$\begin{matrix} & A & B & C \\ \text{Kapil} & \begin{pmatrix} 2 & 6 & 4 \end{pmatrix} \\ \text{Lily} & \begin{pmatrix} 4 & 4 & 4 \end{pmatrix} \\ \text{Maya} & \begin{pmatrix} 8 & 4 & 0 \end{pmatrix} \end{matrix}$$

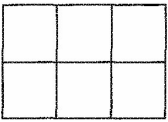
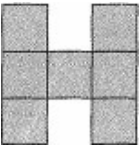
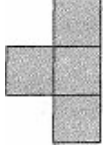
B. 
$$\begin{matrix} & A & B & C \\ \text{Kapil} & \begin{pmatrix} 3 & 5 & 4 \end{pmatrix} \\ \text{Lily} & \begin{pmatrix} 4 & 4 & 4 \end{pmatrix} \\ \text{Maya} & \begin{pmatrix} 8 & 4 & 0 \end{pmatrix} \end{matrix}$$

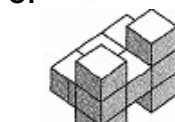
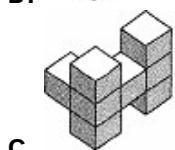
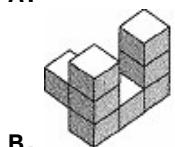
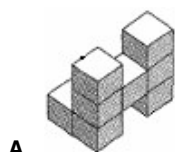
C. 
$$\begin{matrix} & A & B & C \\ \text{Kapil} & \begin{pmatrix} 2 & 6 & 4 \end{pmatrix} \\ \text{Lily} & \begin{pmatrix} 4 & 4 & 4 \end{pmatrix} \\ \text{Maya} & \begin{pmatrix} 8 & 3 & 1 \end{pmatrix} \end{matrix}$$

D. 
$$\begin{matrix} & A & B & C \\ \text{Kapil} & \begin{pmatrix} 2 & 6 & 4 \end{pmatrix} \\ \text{Lily} & \begin{pmatrix} 5 & 4 & 3 \end{pmatrix} \\ \text{Maya} & \begin{pmatrix} 8 & 4 & 0 \end{pmatrix} \end{matrix}$$

Right Answer:: A

2. Adjacent figure shows 3 different views of a three-dimensional figure made from cubes. Which could be a drawing of the figure?

| Top                                                                                | Front                                                                               | Side                                                                                |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |



D.   
Right Answer:: D

3.  $\left(1 - \frac{1}{1 + \sqrt{2}} + \frac{1}{1 - \sqrt{2}}\right) = ?$

- A.  $2\sqrt{2} - 1$
- B.  $1 - 2\sqrt{2}$
- C.  $1 - \sqrt{2}$
- D.  $-2\sqrt{2}$

Right Answer:: B

4. This is a scale drawing of Delhi Junior High School.

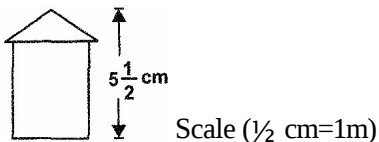
= 3.5 Inches

The scale used is 3.5 inches which equals 7 feet. What is the actual width of the rest rooms?

- A. 49feet
- B. 24.5feet
- C. 21 feet
- D. 14 feet

Right Answer:: D

5. In order to build the set for the school play, the art students referred to scale drawings. One of the first items the students built was the frame of a house. Based on the drawing shown below, what was the actual height, in metres, of the house frame



- A. 5.5 m
- B. 11 m
- C. 66 m
- D. 132 m

Right Answer:: B

6. A factory requires 42 machines to produce a given number of articles in 63 days. How many machines would be required to produce the same number of articles in 54 days?

- A. 36
- B. 81
- C. 49
- D. 40

Right Answer:: C

7. Between which two consecutive whole numbers does  $\sqrt{95}$  lie?

- A. 7 and 8
- B. 8 and 9
- C. 9 and 10
- D. 10 and 11

**Right Answer:: C**

8. A tissue can be 0.000075 meter thick. Which of the following expressions represent 0.000075 in scientific notation?

- A.  $7.5 \times 10^5$
- B.  $7.5 \times 10^{-5}$
- C.  $7.5 \times 10^6$
- D.  $75 \times 10^{-6}$

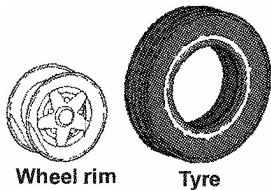
**Right Answer:: B**

9. The Thomas family went for a Sunday drive. Before they left, Mr. Thomas noticed the petrol tank was  $\frac{3}{4}$  full. When they returned home the petrol tank was  $\frac{1}{3}$  full. If the petrol tank holds 18 litres, how many litres of petrol did the car use on the drive?

- A.  $6\frac{1}{2}$
- B.  $7\frac{1}{2}$
- C.  $8\frac{1}{2}$
- D.  $9\frac{1}{2}$

**Right Answer:: B**

10. The wheel rim has a diameter of 15 metres. Which of the following is closest to the inside circumference of the tyre designed to fit on the rim?



- A. 94.2 m
- B. 176.6m
- C. 706.6 m
- D. 47.1 m

**Right Answer:: D**

11. In the following questions, the numbers follow a certain rule. Work it out and select the correct alternative

- A. 42
- B. 45

- C. 47
- D. 49

**Right Answer:: A**

12. Which of the following may lie outside or on the triangle?

- A. Circumcentre, Orthocentre
- B. Centroid, Incentre
- C. Orthocentre, Incentre
- D. None of these

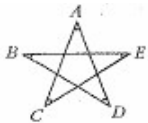
**Right Answer:: A**

13. A company is selling a new book in two sizes. The dimensions of the bigger book will be 18 cm by 12 cm. The ratio of the dimensions of the two books will be 3:1. What will be the dimensions of the smaller book?

- A. 54 cm x 36 cm
- B. 15 cm x 9 cm
- C. 6 cm x 4 cm
- D. 3 cm x 1 cm

**Right Answer:: C**

14. In the star shape shown in figure, the sum of the angles marked at the corners A, B, C, D, E is



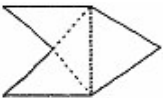
- A.  $90^\circ$
- B.  $135^\circ$
- C.  $180^\circ$
- D.  $140^\circ$

**Right Answer:: C**

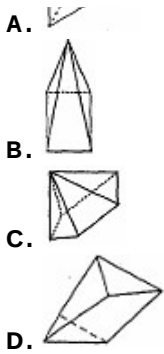
15. If  $\sqrt{18225} = 135$ , then the value of  $\sqrt{182.25} + \sqrt{1.8225} + \sqrt{0.018225} + \sqrt{0.00018225}$  is

- A. 1.4995
- B. 14.9985
- C. 149.985
- D. 1499.85

**Right Answer:: B**

16.  represents the surface area of a solid figure. Which drawing represents the figure?





**Right Answer:: A**

17. LIVED is to DEVIL as 6323 is to

- A. 2336
- B. 6232
- C. 3236
- D. 3326

**Right Answer:: C**

18. Given below are two statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Statements:

- (i) Some cars are trains.
- (ii) Some trains are cats.

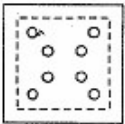
Conclusions:

- (I) No car is cat.
- (II) Some cats are trains.
- (III) Some cars are cats.
- (IV) All trains are cars

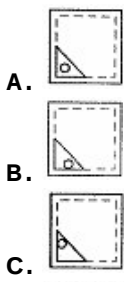
- A. Either I or II and III follows
- B. Either I or III and IV follows
- C. Either I or III follows
- D. None of these

**Right Answer:: D**

19. A square paper is folded in a particular manner and a punch is made. When unfolded, the paper appears as given below



Find out the manner in which the paper is folded and punched





**Right Answer:: A**

20. Gaurav drove 260 miles in 5 hours. He has 494 miles more to drive on his trip. If he continues at the same average rate of speed, what will his driving time be for the remainder of his trip?

- A. 7.6 hours
- B. 9.5 hours
- C. 13 hours
- D. 14.5 hours

**Right Answer:: B**

21. If  $\times$  stands for addition,  $<$  stands for subtraction,  $+$  stands for division,  $>$  stands for multiplication,  $-$  stands for equal to,  $\neq$  stands for greater than, and  $=$  stands for less than, state which of the following is true?

- A.  $5 \times 3 < 7 + 8 + 4 \times 1$
- B.  $3 \times 4 > 2 - 9 + 3 < 3$
- C.  $5 > 2 + 2 = 10 < 4 \times 8$
- D.  $3 \times 2 < 4 \div 16 > 2 + 4$

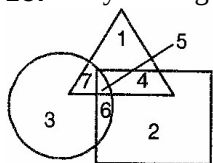
**Right Answer:: C**

22. A, B, C, D, E and F, not necessarily in that order, are sitting on six chairs regularly placed around a round table. It is observed that A is between D and F, C is opposite D, D and E are not on neighbouring chairs. The person sitting opposite B is

- A. A
- B. D
- C. E
- D. F

**Right Answer:: D**

23. Study the diagram given carefully and answer the question



$\triangle$  Youths in villages

$\square$  Unemployed youths

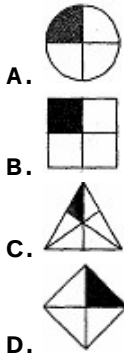
$\bigcirc$  Educated

Uneducated unemployed youths in villages are represented by?

- A. 5
- B. 4
- C. 6
- D. 7

**Right Answer:: B**

24. There are four figures out of which three are same in some way while one is different from the rest. Find out the different figure



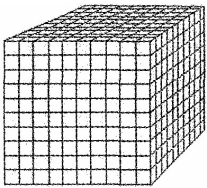
**Right Answer:: C**

25. ? is to Touch as Ear is to?

- A. Hand, Know
- B. Experience, Feeling
- C. Skin, Hear
- D. Hair, Dirt

**Right Answer:: C**

26. A 10 cm x 10 cm x 10 cm wooden block is painted red on all of its faces. It is then cut into cubes, 1 cm on each edge



How many cubic centimeter pieces have exactly 2 faces painted?

- A. 64
- B. 96
- C. 100
- D. 104

**Right Answer:: B**

27. In a certain code (A) 274 means “spread the carpet”, (B) 254 means “dust the carpet”, and (C) 234 means “roll the carpet”. Which digit in that code means ‘roll’?

- A. 2
- B. 3
- C. 5
- D. 6

**Right Answer:: B**

28. Leena weighs 7 times as much as Poonam. Poonam weighs half as much as Sunita. Vineeta weighs 88 pounds. Jyoti weighs 158 pounds. Kavita weighs 115 as much as Leena. Sunita weighs 78 pounds. How much does Kavita weigh?

- A. 22,29 pounds
- B. 156 pounds
- C. 54.6 pounds

D. 49.2 pounds

**Right Answer:: C**

29. If 'HOTEL' is coded as 12, how will you code 'BORE'?

A. 10

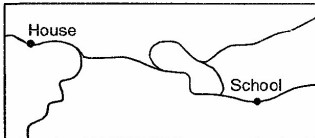
B. 60

C. 40

D. 20

**Right Answer:: A**

30.



On the map shown above, 1 inch represents 50 miles. The distance between house and school is 2.5 inches. What is the actual distance between them?

A. 2.5 miles

B. 20 miles

C. 52.5 miles

D. 125 miles

**Right Answer:: D**

31. The best choice for a password is.....

A. Birthday date

B. Name of the pet

C. Account number

D. A random string of numbers and letters

**Right Answer:: D**

32. A central computer surrounded by one or more satellite computers is called a

A. Bus network

B. Ring network

C. star network

D. All of these

**Right Answer:: C**

33. The antivirus softwares that are installed in RAM and continue to operate in the background while other software applications are running are

A. Heuristic detectors

B. Memory resident

C. TSR's

D. Checksum

**Right Answer:: B**

34. Twisted wires, coaxial cables, fiber optics are examples of.....

- A. Chains
- B. Data transmission
- C. Information transmission
- D. Transmission media

**Right Answer:: D**

35. Netscape navigator, IE, NCSA Mosaic, Netcom's web cruiser, Inter con's Netshark are examples of

- A. Browsers
- B. Programs
- C. Antiviruses
- D. System softwares

**Right Answer:: A**

36. What does one understand by the hardware of computer system?

- A. The central processing unit
- B. Computer cabinet and fixing bolts etc
- C. The peripherals
- D. All the physical parts of the computer

**Right Answer:: D**

37. What is shown in the given figure?



- A. Floppy disk
- B. Hard disk
- C. CD-ROM
- D. Magnetic tape

**Right Answer:: B**

38. Operating system and virus scanner are

- A. System softwares
- B. Part of hardware
- C. Application softwares
- D. Software packages

**Right Answer:: A**

39. To install a scanner and to change its properties we use the option

- A. My documents → New folder
- B. Control panel → Add new hardware
- C. Find → Files or Folders
- D. Accessorie s → Notepad

**Right Answer:: B**

40. One of the factors that characterises the size of the computer is

- A. Number of registers in CPU
- B. Main memory of core type
- C. Capabilities of arithmetic and logic unit
- D. Capacity of the main memory

**Right Answer:: D**

41. .... refers to an application involving more than one type of media, such as text, graphics, video, animation

- A. Hypermedia
- B. Word processor
- C. Presentation
- D. Multimedia

**Right Answer:: D**

42. Which of the following statements is true?

- A. Dot matrix, daisy wheel are non-impact printers
- B. In a non impact printer there is a physical contact of the head with the paper or ribbon
- C. In a character printer whole of the page can be printed at a time
- D. In laser printer a laser beam is used to create an image on a photosensitive drum

**Right Answer:: D**

43. Which of the following indicates relative referencing in MS-Excel?

- A. E6 having formula @ sum (B6:D6)
- B. E5
- C. E6 having formula @ sum (\$B6: \$D6)
- D. All of these

**Right Answer:: A**

44. The amount of data that can be stored on a disk depends mostly on the.....

- A. Size of the disk
- B. Speed of the disk
- C. Number of tracks on the disk
- D. All of these

**Right Answer:: C**

45. Computers use the seven digit code called ASCII. What does ASCII stand for?

- A. American Standard Code for information interchange
- B. Association of Software Coding and Information Institute
- C. American Standard Computing and Information Institute
- D. American Scientists Convention for Information Interchange

**Right Answer:: A**

46. Numerical data can be stored and manipulated in

- A. Calculator
- B. MS-Powerpoint
- C. MS-Access
- D. MS-Excel

**Right Answer:: D**

47. Computers use the seven digit code called ASCII. What does ASCII stand for?

- A. American Standard Code for Information Interchange
- B. Association of Software Coding and Information Institute
- C. American Standard Computing and Information Institute
- D. American Scientists Convention for Information Interchange

**Right Answer:: A**

48. \_\_\_\_\_ deals with integration of computer & graphics packages for the purpose of automating design & drafting process

- A. Graphics package
- B. Computer aided design
- C. Spread sheet
- D. MS-Paint

**Right Answer:: B**

49. Application softwares are used for which of the following tasks?

- A. Billing
- B. Database
- C. Accounting
- D. All of these

**Right Answer:: D**

50. A diamond shaped box in a flow chart refers to

- A. An assignment statement
- B. Printing of a file
- C. If - then - else decision
- D. Data input

**Right Answer:: C**

