



डिजाईन जागरुकता अभियान
DESIGN AWARENESS DRIVE

DAD



On the objectives of

National Design Policy

Govt. Of India

DAD-DESIGNED TO SUPPORT
NATIONAL DESIGN POLICY INDIA

Preparation of a platform for creative design development, design promotion and partnerships across many sectors, states and regions for integrating design with traditional and technological resources.

Global positioning and branding of Indian designs and making "Designed in India" a by-word for quality and utility in conjunction with "Made in India" and "Served in India".

UNITED COUNTRYOUTHS FEDERATION
THE CREATIVE LEADERS-INDIA2018



1. Answer Option: B
Explanation:
L.C.M. of 5, 6, 7, 8 = 840.
Required number is of the form $840k + 3$
Least value of k for which $(840k + 3)$ is divisible by 9 is $k = 2$.
Required number = $(840 \times 2 + 3)$
= 1683.
2. Answer Option: A
Explanation:
Average = total runs / no.of innings
= 32 So,
total = Average x no.of innings
= $32 \times 10 = 320$.
Now increase in avg
= 4runs. So, new avg = $32+4$
= 36runs
Total runs
= new avg x new no. of innings
= $36 \times 11 = 396$ Runs made in the 11th
inning = $n \quad 396 - 320 = 76$
3. Answer Option: A
Explanation:
 $(A+B) - (B+C) = 12$
 $A - C = 12$. C is younger than A by 12 years.
4. Answer Option: D.
Explanation:
 $5 : 4 = 5/4 = ((5/4) \times 100)\%$
= 125%.
5. Answer Option: A
Explanation:
Total investment = Rs. $(120 \times 80 + 280 + (40/100) \times 120 + 72)$.
= Rs. $(9600 + 280 + 48 + 72)$
= Rs, 10000.
Sell price of 120 reams = 108% of Rs. 10000
= Rs. 10800. Sell Price per ream = Rs.
 $[10800/120] = \text{Rs. } 90$.
6. Answer Option :C
Explanation:
 $(A+B+C)$'s 1 day's work
= $(1/24 + 1/6 + 1/12) = 7/24$
so, A,B and C together will complete the work in $24/7$ days.
7. Answer Option: B
Explanation:
Let the number of correct answers be X.
Number of incorrect answers
= $(60 - X)$.
 $4x - (60 - x) = 130$
 $\Rightarrow 5x = 190$
 $\Rightarrow x = 38$
8. Answer Option: B
Explanation:
Let the sum be Rs. P. then
 $P(1+R/100)^3 = 6690 \dots (i)$ and
 $P(1+R/100)^6 = 10035 \dots (ii)$
On dividing, we get
 $(1+R/100)^3 = 10025/6690 = 3/2$.
Substituting this value in (i), we get:
 $P \times (3/2) = 6690$ or $P = (6690 \times 2/3) = 4460$
Hence, the sum is rs.4460.
9. Answer Option: C
Explanation:
Total distance travelled in 12 hours
= $(35+37+39+\dots \text{upto } 12 \text{ terms})$
This is an A.P with first term, $a=35$, number of terms,
 $n= 12, d=2$.
Required distance
= $12/2[2 \times 35 + \{12-1\} \times 2]$
= $6(70+23)$
= 552 kms.
10. Answer Option : A
Explanation:

Let the quantity of alcohol and water be $4x$ litres and $3x$ litres respectively

$$4x/(3x+5) = 4/5$$

$$20x = 4(3x+5)$$

$$8x = 20$$

$$x = 2.5$$

Quantity of alcohol = (4×2.5) litres
= 10 litres.

Explanation:

Let the edge = a cm

So increase by 50 % = $a + a/2 = 3a/2$

Total surface Area of original cube
= $6a^2$

TSA of new cube = $6(3a/2)^2 = 6(9a^2/4)$
= $13.5a^2$

Increase in area = $13.5a^2 - 6a^2 = 7.5a^2$

$7.5a^2$ Increase % = $7.5a^2/6a^2 \times 100$

= 125%

11. Answer Option: A

Explanation:

Let the Number be Y .

Then $Y = 296q + 75$

= $(37 \times 8)q + (37 \times 2) + 1$

= $37(8q + 2) + 1$

Thus, when the number is divided by 37, the remainder is 1

12. Answer Option: A

Explanation:

$P(\text{first letter is not vowel}) = 24$

$P(\text{second letter is not vowel}) = 13$

So, probability that none of letters would be vowels is

$$= 24 \times 13 = 16$$

13. Answer Option : D

Explanation:

We know that Speed = distance / time

Distance = speed * time

$$\Rightarrow d = (40 \times 518) \times 9$$

$$d = 100 \text{ mts.}$$

14. Answer Option: B

Explanation:

Speed of train relative to man

= $(60 + 6)$ km/hr = 66 km/hr.

$(66 \times 5/18)$ m/sec = $55/3$ m/sec

Time taken to pass the man

= $(110 \times 3/55)$ m/sec = 6 sec.

15. Answer Option: A

16. Answer: Option A

Explanation:

All of the trees in the park are flowering trees, So all dogwoods in the park are flowering trees.

17. Answer: Option A

Explanation:

An index, glossary, and chapter are all parts of a book. Choice a does not belong because the book is the whole, not a part.

18. Answer: Option E

Explanation:

If certain preventive measures are practiced at the rural and semi urban areas the problem will be solved. But if the same is not practiced even at the cities the problem may roll into the city also, so the two effects are of some common cause.

19. Answer: Option A

Explanation:

Although choice d also mentions a writer who has died, it does not state that one of the writer's books was published after her death, only that she received an award. Choice a states that Richard wasn't around to see the early reviews of his novel, therefore implying that Richard died before

the book was published. The other two options depict living writers.

20. Answer: Option D

Explanation:

Cup is used to drink something with the help of lips. Similarly birds collects grass with the help of beak to make her nest.

21. Answer: Option A

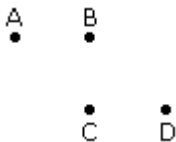
Explanation:

Careful and cautious are synonyms (they mean the same thing). Boastful and arrogant are also synonyms. The answer is not (choice b) because humble means the opposite of boastful. The answer is not choice c or d because neither means the same as boastful.

22. Answer: Option D

23. Answer: Option A

Explanation:



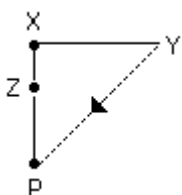
24. Answer: Option B

Explanation:

This is an alternating addition and subtraction series, in which the addition of 4 is alternated with the subtraction of 3.

25. Answer: Option D

Explanation:



P is in South-West of Y.

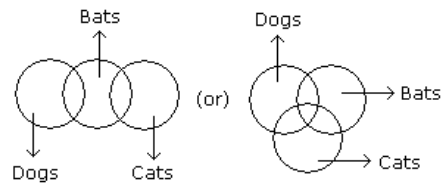
26. Answer: Option A

Explanation:

All except Feathers are organs for movement in different organisms.

27. Answer: Option D

Explanation:



None of the two follows.

28. Answer: Option C

Explanation:

As position of M and N in Eq. alphabets are 13 and 14 respectively.

29. Answer: Option B

Explanation:

As, $16:56 = (2/7)$

Similarly, $32:112:(2/7)$

30. Answer: Option E

Explanation:

Clearly, the statement encourages one to go to court to get his Provident Fund from his employer. This implies that the issue comes under the jurisdiction of courts and that it is the right of the employee to claim his Provident Fund. So, both I and II are implicit.

31. Answer: Option D

Explanation:

In each row, the second figure is obtained by removing the outermost element of the first figure and the third figure is obtained

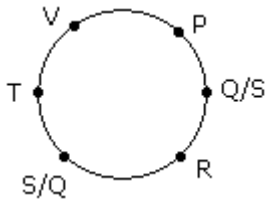
by removing the outermost element of the second figure.

32. Answer: Option D

33. Answer: Option B

34. Answer: Option C

Explanation:



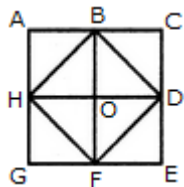
35. Answer: Option C

36. Answer: Option B

Explanation:

A convex pentagon has no angles pointing inwards. More precisely, no internal angles can be more than 180°.

The figure may be labelled as shown.



The pentagons in the figure, are ABDFH, CDFHB, EFHBD, GHBDF, ACDFG, CEFHA, EGHBC, GABDE, BDEGH, DFGAB, FHACD and HBCEF. Clearly, these are 12 in number.

37. Answer: Option C

Explanation:

No. of red faces among first 64 cubes = 128

No. of red faces among second 64 cubes = 192

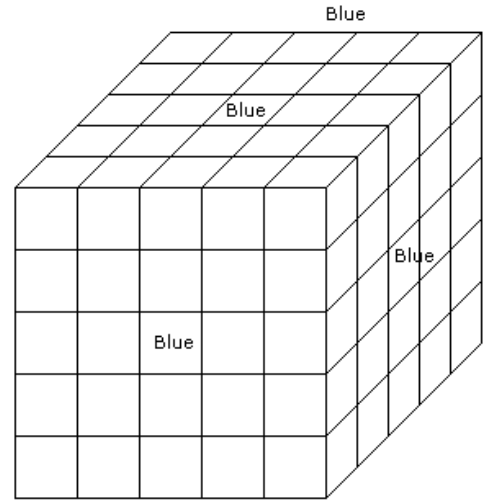
Therefore, total number of red faces = 128 + 192 = 320

38. Answer: Option B

39. Answer: Option A

Explanation:

One side of the big cube = $\sqrt[3]{125} = 5$ cm.

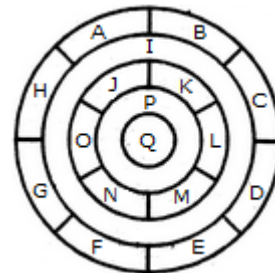


No. of small cubes having only one face coloured = $(5 - 2) \times 6 = 9 \times 6 = 54$

40. Answer: Option A

Explanation:

The figure may be labelled as shown.



The regions A, C, E and G can have the same colour say colour 1.

The regions B, D, F and H can have the same colour (but different from colour 1) say colour 2.

The region I lies adjacent to each one of the regions A, B, C, D, E, F, G and H and therefore it should have a different colour say colour 3.

The regions J, L and N can have the same colour (different from colour 3) say colour 1.

The regions K, M and O can have the same colour (different from the colours 1 and 3).

Thus, these regions will have colour 2.

The region P cannot have any of the colours 1 and 2 as it lies adjacent to each one of the regions J, K, L, M, N and O and so it will have colour 3.

The region Q can have any of the colours 1 or 2.

Minimum number of colours required is 3

41. Answer: Option D

42. Answer : Option B

43. Answer : Option D

44. Answer : Option D

45. Answer: Option D

46. Answer : Option A

47. Answer : Option B

48. Answer: Option D

49. Answer: Option D

50. Answer: Option C

51. Answer: Option A

52. Answer: Option D

53. Answer: Option A

54. Answer: Option C

55. Answer: Option D

56. Answer: Option A

57. Answer: Option C

58. Answer: Option D

59. Answer: Option A

60. Answer: Option C

61. Answer: Option B

62. Answer: Option C

63. Answer: Option B

64. Answer: Option B

65. Answer: Option D

Explanation:

Veterinary - pertaining to the medical treatment of animals

66. Answer: Option D

67. Answer: Option C

68. Answer: Option B

69. Answer: Option B

70. Answer: Option A

71. Answer: Option D

72. Answer: Option A

73. Answer: Option D

74. Answer: Option D

75. Answer: Option A

76. Answer: Option B
77. Answer: Option A
78. Answer: Option A
79. Answer: Option D
80. Answer: Option B
81. Answer: Option B
82. Answer: Option A
83. Answer: Option D
84. Answer: Option A
Explanation:
"Suresh was kind and loving."
85. Answer: Option D
Explanation:
"Hari did not run away."
86. Answer: Option C
87. Answer: Option C
88. Answer: Option A
89. Answer: Option A
90. Answer: Option C
91. Answer: Option A
92. Answer: Option B
93. Answer: Option A
94. Answer: Option B
95. Answer: Option A
96. Answer: Option C
97. Answer: Option B
98. Answer: Option A
99. Answer: Option D
100. Answer: Option A