two cards are drawn together at random. What is the probability of both the cards being kings?
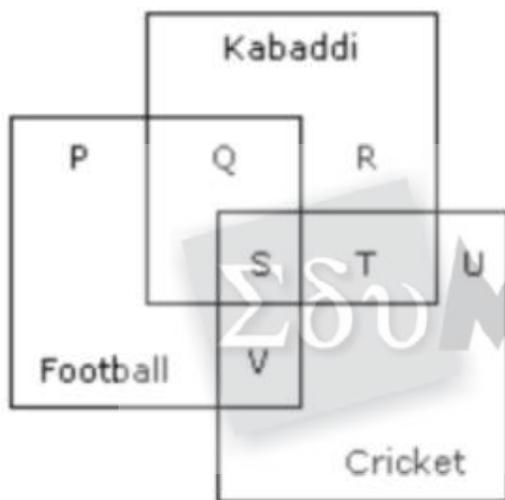A.35/256   B.1/15
C.1/221   D.25/57

75. **Two dice are tossed. The probability that the total score is a prime number is:**
A.5/12   B.2/9
C.1/6   D.1/3

LOGICAL REASONING

The diagram given below represents those students who play Cricket, Football and Kabaddi.

76. **Study the diagram and identify the students who play all the three games.**
A.T   B.S+T+V
C.S   D.None of these

Read the given information and answer the questions that follow:

P, Q, R, S, T, U, V and W are sitting round the circle and are facing the center:
1. **P is second to the right of T who is the neighbour of R and V.**
2. **S is not the neighbour of P.**
3. **V is the neighbour of U.**
4. **Q is not between S and W. W is not between U and S.**

77. **Which two of the following are definitely not neighbors?**
A.RV   B.QW
C.RP   D.UV

78. **Which one is immediate right to the V?**
A.R   B.P
C.T   D.U

79. **Which of the following is correct?**
A.P is to the immediate right of Q
B.Q is to the immediate left of W
C.R is between U and V
D.None of these

80. **What is the position of S?**
A.Data inadequate.
B.Between U and V
C.To the immediate right of W
D.Second to the right of P

81. **Pointing to Varman, Madhav said, "I am the only son of one of the sons of his father." How is Varman related to Madhav?**
A.Father   B.Father or Uncle
C.Uncle   D.Nephew

If A + B means B is the brother of A;
A x B means B is the husband of A;
A - B means A is the mother of B and
A % B means A is the father of B,

82. **which of the following relations shows that Q is the grandmother of T?**
A.Q - P + R % T   B.P x Q % R + T
C.P x Q % R – T   D.P + Q % R – T

83. **In a certain code 'SEQUENCE' is coded as 'FDOFVRFT. How is 'CHILDREN' coded in that code?**
A.OFSEMJID   B.OFSEJIMD
C.OFSEJMID   D.OFESJMID

84. **If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH?**
A.216473   B.214763
C.246173   D.214673

85. One evening just before sunset two friends Sanju and Manju were talking to each other face to face. If Manju's shadow was exactly to her left side, which direction was Sanju facing?

A.West
B.North
C.South
D.Data Inadequate

Observe the following series carefully and answer the questions that follow
A $ 1 2 & * E 7 2 1 ! @ I * # @ ! ! O * & # > 8 U >

86. How many numbers follow a vowel alphabet?

A.2
B.3
C.4
D.1

87. Varun drove his car for 80 kms due North. Then he turned left and drove for 100 kms. Again he turned left & drove yet another 80 kms. Again he turned left and drove his car 120 kms. How far do you think he actually drove his car from the initial position?

A.Can't Say
B.20 kms
C.60 kms
D.100 kms

88. Find the wrong number in the given series.
8, 27, 125, 343, 1381

A.343
B.8
C.27
D.1381

Directions: In these questions, relationship between different elements is shown in the statement. The statement is followed by two conclusions. Choose the correct answer on the basis of information given below.

89.

Statement : $P \leq R \leq C = S > Q > T$

Conclusions : I. $P < Q$ II. $S \geq P$

A.Only conclusion II follows
B.Only conclusion I follows
C.Either conclusion I or conclusion II follows
D.Both conclusions follow

90.

Statements: $L \geq Y \geq A < R$, $S > Q = A \geq I$

Conclusions: I. $S > Y$,   II. $R > Q$

A.Only conclusion II follows.

B.Both conclusions follow.
C.Only conclusion I follows.
D.Either conclusion I or conclusion II follows.

91.

Statements: $M < A \leq P > X$, $P \geq B = C < Y$, $C \geq D > F = L$

Conclusions: I. $P \geq D$,   II. $M < C$

A.Only conclusion I follows.
B.Only conclusion II follows.
C.Both conclusions follow.
D.Either conclusion I or conclusion II follows.

In each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and Give answer

(A) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question

(B) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question

(C) If the data either in statement I alone or in statement II alone are sufficient to answer the question

(D) If the data given in both statements I and II together are not sufficient to answer the question and

(E) If the data in both statements I and II together are necessary to answer the question.

92. Question: How is Sulekha related to Nandini ?
Statements:
I. Sulekha's husband is the only son of Nandini's mother.
II. Sulekha's brother and Nandini's husband are cousins.

A.B
B.C
C.A
D.D
E.E

93. Question: What is the code for 'or' in the code language?
Statements:
I. 'nik sa te' means 'right or wrong', 'ro da nik' means 'he is right' and 'fe te ro' means 'that is wrong'.
II. 'pa nik la' means 'that right man', 'sa ne pa' means 'this or that' and 'ne ka re' means 'tell this there'.

A.E
B.D

D.B
E.A

94. Question: Madan is elder than Kamal and Sharad is younger than Arvind. Who among them is the youngest ?
Statements:

I. Sharad is younger than Madan.
II. Arvind is younger than Kamal.

A.B   B.D
C.C   D.E
E.A

Manisha prefers her date to be tall, dark and handsome. Of the preferred traits - tall, dark and handsome - no two of Anuj, Balbir, Chiman and Debjit have the same number.
Only Anuj or Debjit is tall and fair.
Only Balbir or Chiman is short and handsome.
Anuj and Chiman are either both tall or both short.
Balbir and Debjit are either both dark or both fair.

95. Who is Manisha's date?
A.Balbir   B.Anuj
C.Chiman   D.Debjit

96. 4 boys are sitting in a park to be photographed. Manjeet is to the right of Rohan. Rustom is between Rohan and Manjeet. Sukhjeet is to the left of Rohan. Who is 2nd from the left in the photograph ?
A.Rohan   B.Sukhjeet
C.Manjeet   D.Rustom

A word and number arrangement machine when given an input line of words and numbers rearranges them by following a particular rule in each step. The following is an illustration of input and rearrangement.
Input: british 32 71 greece firangi spanish 65 84
Step I: spanish british 32 71 greece firangi 65 84
Step II: spanish 84 british 32 71 greece firangi 65
Step III: spanish 84 greece british 32 71 firangi 65
Step IV: spanish 84 greece 71 british 32 firangi 65
Step V: spanish 84 greece 71 firangi british 32 65
Step VI: spanish 84 greece 71 firangi 65 british 32 and step VI is the last step of the rearrangement.
As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

Step III of an input is: 'yeast 92 umbrella 15 23 slate hanger 67'.

97. How many more steps will be required to complete the rearrangement?
A.4   B.5
C.3   D.2

Directions: Study the following information carefully and answer the given questions.
In number arrangement machine when given an input line of numbers, it rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.
Input: 75 14 56 27 48 31 64 97 28 57
Step I: 72 75 56 48 31 64 97 28 57 15
Step II: 13 72 75 56 48 64 97 57 15 29
Step III: 75 13 72 75 56 64 97 15 29 49
Step IV: 57 75 13 72 64 97 15 29 49 57
Step V: 79 57 75 13 72 15 29 49 57 65
As per rules followed in the given steps, find appropriate step for given Input.
Input: 86 12 53 22 45 19 32 29 74 93

98. Which of the following is the fifth step for input?
A.39 35 54 92 91 13 23 33 75 87
B.39 35 54 33 75 87 92 91 13 23
C.39 35 33 75 87 54 92 91 13 23
D.39 35 23 33 54 92 91 13 75 87

Directions: Study the following information carefully and answer the given questions.

In number arrangement machine when given an input line of numbers, it rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.
Input: 75 14 56 27 48 31 64 97 28 57
Step I: 72 75 56 48 31 64 97 28 57 15
Step II: 13 72 75 56 48 64 97 57 15 29
Step III: 75 13 72 75 56 64 97 15 29 49
Step IV: 57 75 13 72 64 97 15 29 49 57
Step V: 79 57 75 13 72 15 29 49 57 65
As per rules followed in the given steps, find appropriate step for given Input.
Input: 86 12 53 22 45 19 32 29 74 93

99. Which of the following elements lies exactly between 91 and 32 in step II?

B.23
C.13   D.86

Directions: Study the following information carefully and answer the given questions.

In number arrangement machine when given an input line of numbers, it rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: 75 14 56 27 48 31 64 97 28 57

Step I: 72 75 56 48 31 64 97 28 57 15

Step II: 13 72 75 56 48 64 97 57 15 29

Step III: 75 13 72 75 56 64 97 15 29 49

Step IV: 57 75 13 72 64 97 15 29 49 57

Step V: 79 57 75 13 72 15 29 49 57 65

As per rules followed in the given steps, find appropriate step for given Input.

Input: 86 12 53 22 45 19 32 29 74 93

100. **Which is the following step?**

   Step: 54 92 91 86 53 74 93 13 23 33

   A.4   B.3
   C.6   D.5