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JIPMAT 2022

Previous Year Question Paper

100 Questions · Quantitative Aptitude · DI & Logical Reasoning · Verbal Ability & RC

Prepared by Thinkoraa for practice. Answer key and step-by-step solutions are at the end of this booklet.

Questions

Directions

For the following questions answer them individually

1 The equation of the circle which passes through the point (4, 5) and its centre at (2, 2) is

A $(x-2)+(y-2)=13$

B $(x-2)^2+(y-2)^2=13$

C $x^2+y^2=13$

D $(x-4)^2+(y-5)^2=13$

2 A sum becomes double in 10 years. Then what is the annual rate of simple interest?

A 8%

B 5%

C 10%

D 20%

3 P, Q, and R invested Rs. 25,000, Rs. 50,000, and Rs. 25,000 respectively to start a business. At the end of two years, they earned a profit of Rs. 48,000. What will be Q's share?

A 24,000

B 36,000

C 12,000

D 20,000

4

List I(Quadratic Equation)	List II(Roots)
$A.\ 6x^2+x-12=0$	$I.\ (-6,4)$
$B.\ 8x^2+16x-10=202$	$II.\ (9,36)$
$C.\ x^2+45x+324=0$	$III.\ \left(3,-\frac{1}{2}\right)$
$D.\ 2x^2-5x-3=0$	$IV.\ \left(-\frac{3}{2},\frac{4}{3}\right)$

Match List I with List II. Choose the correct answer from the options given below:

A A-I, B-III, C-IV, D-II

B A-IV, B-I, C-II, D-III

C A-II, B-IV, C-III, D-I

D A-III, B-II, C-I, D-IV

5 The population of a village is 5000. If in a year, the number of males were to increase by 5% and that of females by 3% annually, the population would grow to 5202 at the end of the year. If M is the number of males and F is the number of females in the village, then (M,F) =

A (3000, 2000)

B (2800, 2200)

C (2600, 2400)

D (2700, 2300)

6 If A earns $33\frac{1}{3}\%$ more than B, then the percentage B earns less than A will be:

A 66.33%

B 25%

C 65%

D 33.33%

7 Which of the following trigonometric identities are true?

A. $\sin^2(41^\circ) + \sin^2(49^\circ) = 1$

B. $\sin^2(60^\circ) - 2\tan(45^\circ) - \cos^2(30^\circ) = -1$

C. $\sin^2(\theta) + \dfrac{1}{1+\tan^2(\theta)} = 1$

A A and B only

B A and C only

C B and C only

D A, B, and C

8 Which of the following is the value of m for which the polynomial $x^4 + 10x^3 + 25x^2 + 15x + m$ is exactly divisible by $x + 7$?

A -91

B -101

C 15

D 115

9 The area of a circular playground is 22176 cm². What is the cost of fencing this ground at the rate of ₹50 per metre?

A ₹ 264

B ₹ 400

C ₹ 312

D ₹ 244

10 The sum of n terms of the sequence $\dfrac{1}{1\times 2} + \dfrac{1}{2\times 3} + \dfrac{1}{3\times 4} + \ldots$ is

A $\dfrac{1}{n+1}$

B $\dfrac{n+1}{n}$

C $\dfrac{1}{n}$

D $\dfrac{n}{n+1}$

11 If A can do 1/4 of a work in 3 days and B can do 1/6 of the same work in 4 days, how much will A get if both work together and are paid Rs. 180 in total?

A 36

B 60

C 108

D 120

12 Two poles of height 6 m and 11 m stand vertically upright on a plane ground. If the distance between their foot is 12 m, then the distance between their tops is

A 12 m

B 14 m

C 13 m

D 11 m

13 The value of a flat worth ₹500,000 is depreciating at the rate of 10% per annum. In how many years will the value be reduced to ₹364,500?

A 2 Years

B 3 Years

C 3 Years, 6 Months

D 4 Years

14 How many liters of water should be added to a 30 liters mixture of milk and water containing milk and water in the ratio 7 : 3 such that the resultant mixture has 40% water in it?

A 5

B 2

C 3

D 8

15 Given below are two statements:
Statement I : The sum of exponents of prime factors in the prime factorization of 392 is 5.
Statement II : The decimal representation of $\frac{13}{2^3 \times 5}$ will terminate after 2 decimal places.
In the light of the above statements, choose the correct answer from the options given below:

A Both Statement (I) and Statement (II) are true.
B Both Statement (I) and Statement (II) are false.
C Statement (I) is true but Statement (II) is false.
D Statement (I) is false but Statement (II) is true.

16 Given below are two statements based on the following: If A and B are independent events such that P(A) = p, P(B) = 2p and P(exactly one of A, B) = $\frac{5}{9}$
Statement I: $p = \frac{1}{3}$
Statement II: $p = \frac{5}{12}$
In the light of the above statements, choose the correct answer from the options given below:

A Both Statement (I) and Statement (II) are true.
B Both Statement (I) and Statement (II) are false.
C Statement (I) is true but Statement (II) is false.
D Statement (I) is false but Statement (II) is true.

17 Given below are two statements based on the following:
A motor boat can travel 30 km upstream and 28 km downstream in 7 hours. It can travel 21 km upstream and return in 5 hours.
Statement I: Speed of the boat in still water is 12 km per hour.
Statement II: Speed of the stream is 4 km per hour.
In the light of the above statements, choose the correct answer from the options given below:

A Both Statement (I) and Statement (II) are true.
B Both Statement (I) and Statement (II) are false.
C Statement (I) is false but Statement (II) is true.
D Statement (I) is true but Statement (II) is false.

18 The floor of a room is 15m 17cm long and 9m 2cm broad. What is the least number of square tiles required to pave the floor?

A 768
B 906
C 814
D 652

19 Two persons, A and B, start from the same point and travel from Chandigarh to Ambala. The distance between Chandigarh and Ambala is 60 km. Speed of A is 4km/hr slower than B. B, when he reaches Ambala, starts back via the same route without taking any rest and meets A, who was still 12km away from Ambala. Find the speed of A.

A 4 km/hr
B 8 km/hr
C 12 km/hr
D 14 km/hr

20 If the LCM of two numbers is 12 times their HCF and the sum of LCM and HCF is 403, and one number is 93, find the other number.

A 124
B 114
C 128
D 96

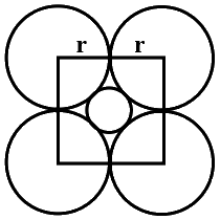
21 The father's age is six times his son's age. Four years hence, the age of the father will be four times his son's age. The present ages (in years) of the son and the father are, respectively

A 6 and 36
B 4 and 24
C 5 and 30
D 7 and 42

22 Three years ago, the ratio of the ages of Amisha and Namisha was 8:9. Three years from now, the ratio will become 11:12. What is the present age of Amisha?

A 2 years
B 16 years
C 19 years
D 21 years

23 If the radius of each of four outer circles is r, then the radius of the innermost circle is



A $\frac{\sqrt{2}}{\sqrt{2}+1}r$
B $\frac{1}{\sqrt{2}}r$
C $(\sqrt{2}-1)r$
D $\sqrt{2}r$

24 If $\sin(\alpha)$ and $\cos(\alpha)$ are the roots of the equation $ax^2+bx+c=0$, then b^2 is

A c^2+2ac
B a^2+ac
C a^2+2ac
D c^2+ac

25 If the mean of a, b and c is M; ab + bc + ca = 0; and the mean of a^2, b^2 and c^2 is KM^2, then K is equal to

A 3
B 9
C 6
D 4

26

List I	List II
A. Mean of first five prime numbers is	I. 12
B. Mean of all factors of 24 is	II. 7.5
C. Mean of first six multiples of 4 is	III. 5.6
D. If the mean of $x-5y$, $x-3y$, $x-y$, $x+y$, $x+3y$ and $x+5y$ is 12, then x is	IV. 14

Match List I with List II. Choose the correct answer from the options given below:

A A-II, B-I, C-III, D-IV

B A-III, B-II, C-IV, D-I

C A-I, B-IV, C-II, D-III

D A-IV, B-III, C-I, D-II

27 $\dfrac{\sqrt{5}+\sqrt{3}}{\sqrt{8-2\sqrt{15}}}+\dfrac{\sqrt{11+2\sqrt{30}}}{\sqrt{6}-\sqrt{5}}=$

A $25+\sqrt{10}+2\sqrt{30}$

B $40+\sqrt{10}+2\sqrt{30}$

C $30+\sqrt{10}+2\sqrt{30}$

D $15+\sqrt{15}+2\sqrt{30}$

28 If $a\times b=2a-3b+ab$, then $3\times 5+5\times 3$ is equal to

A 26

B 24

C 22

D 20

29 The value of $\dfrac{325\times 325\times 325+175\times 175\times 175}{325\times 325-325\times 175+175\times 175}$ is

A 143755

B 1125

C 9575

D 500

30 Given below are two statements:
Statement I: In $\triangle ABC$, $AB=6\sqrt{3}$ cm, AC = 12 cm and BC = 6 cm, then $\angle B=90^\circ$.
Statement II: $\triangle ABC$ is isosceles with AC = BC. If $AB^2=2AC^2$, then $\angle C=90^\circ$.
In the light of the above statements, choose the correct answer from the options given below:

A Both Statement (I) and Statement (II) are true.

B Both Statement (I) and Statement (II) are false.

C Statement (I) is true but Statement (II) is false.

D Statement (I) is false but Statement (II) is true.

31 Given below are two statements:
Statement I: If $\sin\theta=\dfrac{5}{13}$, then the value of $\tan\theta=\dfrac{5}{12}$
Statement II: If $\cot\theta=\dfrac{12}{5}$, then the value of $\sin\theta=\dfrac{5}{12}$
In the light of the above statements, choose the correct answer from the options given below:

A Both Statement (I) and Statement (II) are true.

B Both Statement (I) and Statement (II) are false.

C Statement (I) is true but Statement (II) is false.

D Statement (I) is false but Statement (II) is true.

32 A two digit number is 7 times the sum of its two digits. The number that is formed by reversing its digits is 18 less than the original number. What is the number?

A 24 **B** 42

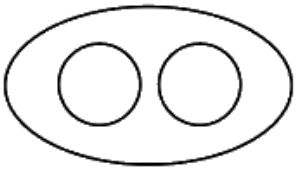
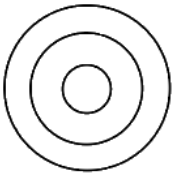
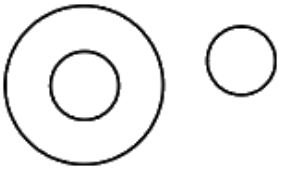
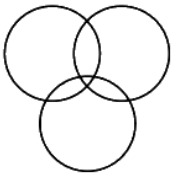
C 36 **D** 63

33 If $\frac{a}{b+c} = \frac{b}{c+a} = \frac{c}{a+b} = k$, then the value of k is

A $\pm\frac{1}{2}$ **B** $\frac{1}{2}$ or −1

C −1 **D** $\frac{1}{2}$

34 Which of the following diagrams best indicates the relationship among deer, lion, and animals?

A  **B**  **C**  **D** 

35 Sheela is the wife of Arun. Deepak is the brother of Sheela. Geeta and Mita are children of Sunita, who is wife of Deepak. How is Arun related to Mita?

A Grandfather **B** Mother

C Uncle **D** Father in law

36 Three statements are given. Based on the three statements, four conclusions are given. Consider the three statements as True and decide which of the conclusions logically follow from the statements: Statements:
All Sparrows are birds.
All birds are mountains.
All mountains are skies.
Conclusions:
I) All Sparrows are skies.
II) All Skies are birds.
III) All mountains are sparrows.
IV) All birds are skies.

A Only I and III follow **B** Only II and III follow

C Only I and IV follow **D** Only II and IV follow

37 Various terms of an alphabet series are given with one or more terms missing as shown by (?). Choose the missing term out of the given options: AGDLX, GDLXA, DLXAG, ?, XAGDL, AGDLX

A LXAGD **B** XAGLD

C DXAGL **D** GLXAD

38 Read the following information:
A and C are good in History and Biology.
A is also good in Maths.
B and D are good in Physics.
A is also good in Chemistry.
C and D are good in Chemistry.
Who is/are good in four of these five subjects?

A A and C
B C
C A
D D

39 Four friends Jaspreet, Rohit, Rihanna and Blessy like different sports. All of them are active members of their clubs. One person can become a member of one club only. There are three clubs- Dance, Theatre and Eco club in the school. Jaspreet, who likes swimming, is not a member of the dance club. Rihanna is a member of a dance club but does not like tennis. Rohit likes badminton but is not a member of the theater or dance club. Blessy is a member of Eco club and does not like swimming and badminton. Who likes badminton and is a member if Eco club?

A Jaspreet
B Rohit
C Rihanna
D Blessy

40 Complete the series: CEFH, IKLN, _____, UWXZ

A OPQR
B PRSU
C PQST
D OQRT

41 Pointing towards a person in a photograph Rani said, 'He is the only son of the father of my sister's brother'. How is the person in the photograph related to Rani?

A Father
B Sister
C Cousin
D Brother

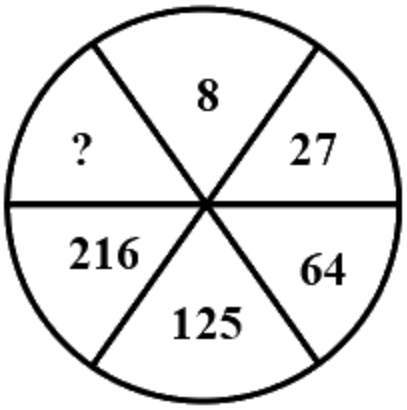
42 Consider an alphabetic series shown below as: A, C, F, J. The next two terms of the series are?

A L and P
B O and U
C M and R
D S and U

43 Find the missing term in the series given below: 6, 8, 4, 6, 3, 5, ?, 9/2, ...

A 8
B 5/3
C 5/2
D 9/4

44 The numbers in the figure below have been generated using certain logic/pattern.



Using that logic/pattern, find out the number that can be inserted in place of ?

A 343
B 128
C 432
D 341

45 Given the following number codes: 623 = 49, 516 = 62, and 438 = 89. Then what is 583?

A 36
B 98
C 65
D 69

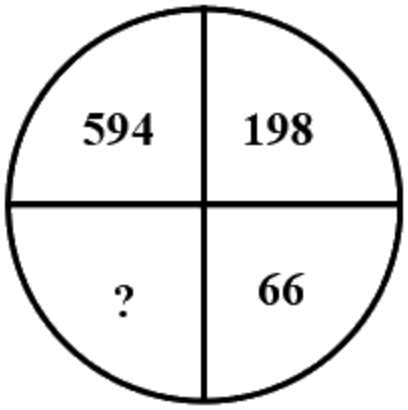
46 Find the wrong term in the series given below: 1, 9, 33, 105, 158

A 158
B 105
C 33
D 9

47 A man walks 3 km east from his house, then turns south and walks 4 km, and finally turns west and walks 6 km. How far is he from his starting point?

A 7 km
B 4 km
C 5 km
D 3 km

48 The numbers in the figure given below have been generated using some logic/pattern.



Using that logic/pattern, find out the number that can be inserted in place of ?

A 33
B 22
C 18
D 30

49 Based on the relationship between the first two words on the left side of '::' as given below, choose the correct word in place of '?' to express a similar relationship.
Botany : Plants :: Entomology : ?

A Animals
B Germs
C Birds
D Insects

50 If + means ÷, ÷ means −, − means ×, and × means +, then find the value of the following expression: 5 − (13 − 4 + 2 ÷ 6 × 15 ÷ 5)

A 120
B 10
C 28
D 150

51 There is a certain relationship between two given terms on one side of '::' and one term is given on the other side of '::'. Find the term that has the same relationship with this term as the terms of the given pairs have. LCQJ : METN :: ABDF : ?

A BCEG
B CEFI
C DEGI
D BDGJ

52 A person belonging to the same period with another person is called _____

A predecessor
B contemptuous
C contemporary
D successor

53 Brevity is the soul _____ wit.

A with
B for
C of
D off

54 He broke _____ in the middle of his speech

A of
B apart
C down
D for

55 The doctor _____ special course of antibiotics on the patient to _____ the disease.

A used .... relieve
B gave .... fake out
C prescribed .... prove
D administered .... combat

56 All we have to fear is fear _____.

A ourselves
B myself
C itself
D yourself

57 Identify the word which means the same as 'sift'.

A examine
B calamity
C worthiness
D problematic

58 I prefer reading a book _____ watching a movie.

A then
B over
C to
D against

59 Pick out the correct sentence in passive voice of the following sentence: 'We compelled the enemy to surrender'.

A The enemy is compelled to surrender by us.
B We compel the enemy to surrender.
C The enemy was compelling to surrender by us.
D The enemy was compelled to surrender by us.

60 Which of the following sentences is correct?

A He was selected the very best player of the tournament.
B He was selected the more best player of the tournament.
C He was selected the more better player of the tournament.
D He was selected the best player of the tournament.

61 Which of the following sentences is correct?

A The coach ordered the player to not leave the camp.
B The coach ordered the player for not leave the camp.
C The coach ordered the player not to leave the camp.
D The coach order the player not to leave the camp.

62 Pick out the correctly spelt word:

A gratitus
B occasional
C ocasional
D occasionaly

63 Pick out the part of sentence which has an error. If there is no error mark '4'.
A) It wasn't necessary for her
B) To take time of work
C) when her son was ill

A A
B B
C C
D No error

64 Pick out the correct sentence in passive voice of the following sentence:
Some boys were helping the wounded man.

A The wounded man was helping some boys
B The wounded man was being helped by some boys
C The wounded man is helped by some boys
D The wounded man was helped by some boys

65 Pick out the part of the sentence which has an error. If there is no error mark '4'.
A) A white rhinocerous
B) is close
C) to extinction

A A
B B
C C
D No error

66 Which of the following sentences is correct?

A Though my grandfather is very old but he is very active.
B My grandfather is not inactive for his old age.
C My grandfather is without activities but his old age.
D Although my grandfather is very old, he is very active.

67 What figure(s) of speech are used in the given sentence?
My beloved is like a red red rose.

A Simile and Metaphor
B Simile and Alliteration
C Metaphor and Hyperbole
D Metaphor and Imagery

68 Fill in the blank with the most appropriate word:
When people are _____, as long as they hold fast to their language, it is as if they have the key to their prison.

A enslave
B unslaved
C enslaved
D Prisoners

69 The following sentence is divided into three parts. One of the parts has an error. Identify the part which has an error. If there is no error, mark '4'.
A) The admission ticket
B) entitling her to
C) win a prize

A A
B B
C C
D No error

70 This question has a sentence with two blanks followed by four pairs of words as choices. From the choices, select the pair of words that can best complete the given sentence:
We are truly _____ to the many hands and hearts that made this book _____.

A obliged .... plausible
B honoured .... feasible
C grateful .... possible
D thankful .... flexible

71 Find out an appropriate synonym for the word 'Ebullient':

A Athletic
B Energetic
C Indolent
D Lethargic

72 Pick out the correct sentence in indirect speech of the following sentence:
He said to me, "What are you doing?"

A He asked me what he was doing.
B He asked me that what I was doing.
C He asked me what I was doing.
D He asked me why I was doing.

73 Neither of the players ___ adequately prepared for the tournament.

A are
B is
C am
D were

74 No sooner did the chairman _____ than the directors put up their demand.

A had arrived
B arrived
C arrive
D will arrive

75 Rearrange the following parts of a sentence in order to make a meaningful sentence:
P. for five years, I was sure
Q. when I decided to go abroad
R. that my grandmother would be upset
S. and at her age one could never tell

A RSPQ
B PSRQ
C SPQR
D QPRS

76 Pick out the correct sentence in indirect narration of the following sentence: He said, 'How wise I am!'

A He exclaimed that I was very wise.
B He exclaimed that he was very wise.
C He exclaimed that I am very wise.
D He regretted that he was very wise.

77 Pick out the antonym of the word 'dissimulate'.

A concrete
B circulate
C concealed
D reveal

78 Pick out the correct sentence from the following sentences.

A He didn't liked to attend the lecture
B He hadn't like to attend the lecture
C He haven't liked to attend the lecture
D He didn't like to attend the lecture

79 Pick out the part of the sentence which has an error. If there is no error, mark '4'.
A) As I haven't see all the evidence.
B) I am reluctant
C) to make a judgement

A A
B B
C C
D No error

80 Pick out the antonym of the word 'jocund'.

A jealous
B cheerful
C gloomy
D optimistic

81 Rearrange the following parts of a sentence in order to make a meaningful sentence.
P. responsible for anything
Q. we would be held
R. that went wrong
S. we were told that

A RQPS
B SQRP
C SQPR
D PQRS

Directions

Following expenditure was incurred by a company under different heads:

Year	Salary	Cost of Components	Power	Interest	Taxes
2000	288	296	26.4	12.2	32.0
2001	299	332	28.4	14.2	34.6
2002	298	382	26.2	14.8	38.8
2003	305	410	28.6	15.2	42.4
2004	316	428	32.0	14.3	42.6

82 What is the approximate ratio between total tax paid and cost of components over all these years?

A 1 : 117
B 3 : 70
C 14 : 138
D 12 : 141

83 Total expenditure in 2000 was what percentage of total expenditure in 2003?

A 60.03%
B 81.70%
C 76.56%
D 122.39%

84 Which year saw the maximum % increase in salary over the previous year?

A 2001
B 2002
C 2003
D 2004

Directions

A teacher has partial data of the student result:

Sex	Grade A	Grade B	Grade C	Total
Girls				40
Boys	5			
Total		30		

The other information available is:
1. Half the students have grade A and B
2. 50% of the students are girls
3.
1 th of boys have grade C
4

85 The number of girls, boys and total number of students is:

A Girls-40, Boys-45, Total-85
B Girls-40, Boys-40, Total-80
C Girls-40, Boys-50, Total-90
D Girls-40, Boys-35, Total-75

86 Half the students have grade A or B. The number of girls of Grade A and total (girls and boys) having grade A are:

A 5, 10
B 5, 5
C 10, 5
D 10, 10

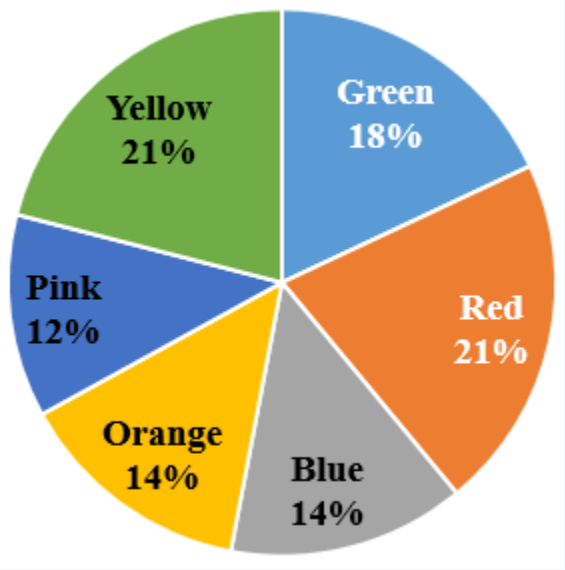
87 Number of boys who have grade B and the number of boys who have grade C are:

A 25, 10
B 10, 25
C 10, 30
D 30, 10

88 The numbers of girls who have grade B and number of girls who have grade C are:

A 5, 30
B 30, 5
C 10, 30
D 30, 10

Directions



Colour	Light: Dark
Red	3 : 4
Blue	5 : 3
Green	1 : 3
Pink	1 : 7
Yellow	9 : 5
Orange	7 : 9

In a box, there are several balls. The pie-chart shows the percentage-wise distribution of 5 different colours of balls; and total number of balls = 1000. Also, the ratio of the light and dark shades of the six colours of balls is given.

89 How many dark red balls are there in the box?

A 110 **B** 120

C 130 **D** 140

90 What is the total number of green balls?

A 180 **B** 170

C 185 **D** 190

91 What is the total percentage of orange, yellow and pink balls in the box?

A 46 **B** 47

C 48 **D** 49

92 What is the difference between number of light red balls and number of dark yellow balls?

A 15 **B** 12

C 14 **D** 17

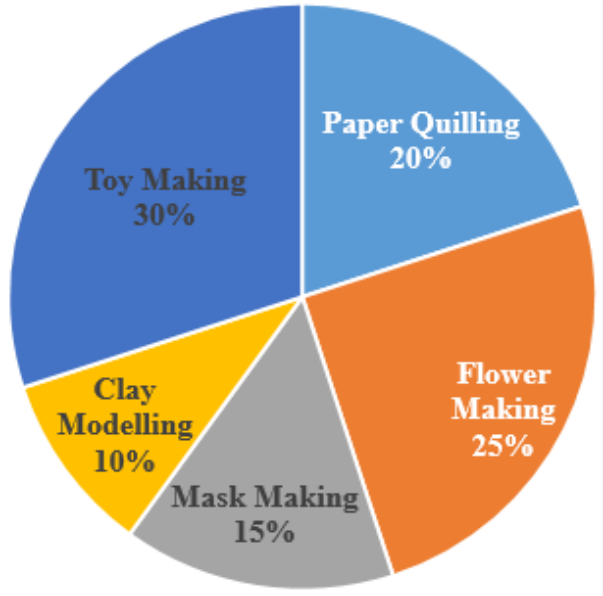
93 What is the ratio of dark pink balls to the dark green balls?

A 6:9 **B** 7:8

C 7:9 **D** 6:8

Directions

Study the following pie-chart and answer the following questions:
Percentage-wise participation of students in various activities:



Total number of students = 40.

94 How many students participated is mask-making and paper-quilling activity?

A 14 **B** 12

C 16 **D** 10

95 How many students did not participate in toy-making activity?

A 16 **B** 12

C 10 **D** 20

96 How many students participated in flower-making activity?

A 12 **B** 10

C 16 **D** 20

Directions

Read the following passage carefully and answer the questions that follow.

Man's growth from barbarism into civilization is supposed to be the theme of history. But sometimes, looking at great stretches of history, it is difficult to believe that we are very much civilized or advanced. There is enough of want of co-operation today as we see one country or people selfishly exploiting another.

Man in many ways has not made very great progress from other animals. Still, we look down upon the insects as almost the lowest of living things and yet the tiny bees and ants have learnt the art of co-operation and of sacrifice for the common good far better than man. If mutual co-operation and sacrifice for the good of society are the test of civilization, we may say that the bees and ants are superior to man. The old saying goes as follows: "For the family, sacrifice the individual, for the community, the family, for the country, the community, and for the soul, the whole world." It teaches us the lesson of co-operation and sacrifice for the larger good which we may have forgotten. How wonderful it is to see men and women, and boys and girls smilingly going ahead on the path of progress without caring any pain or suffering? Well, may they smile and be glad for the joy of serving a great cause which is theirs; and for those who are fortunate, comes the joy of sacrifice too.

97 How can we be truly civilized?

A by getting more wealth
B by getting more power
C by getting higher education
D by developing qualities of mutual help

98 Animals are superior to men because of their _____

A Physical strength
B great instinct for co-operation
C rude and blind behavior
D carefree life

99 What is the theme of the above passage?

A The Rise and Fall of Empires
B Man's search for Truth
C Man's Moral and Spiritual Development
D Man's quest for Idealism

100 What is the basic reason for the exploitation of one man by another?

A Moral Turpitude
B Lack of Education
C High Ethics
D Weakness of some people

Answer Key

Questions

1 **B**	2 **C**	3 **A**	4 **B**	5 **C**	6 **B**	7 **B**	8 **A**	9 **A**	10 **D**
11 **D**	12 **C**	13 **B**	14 **A**	15 **C**	16 **A**	17 **C**	18 **C**	19 **B**	20 **A**
21 **A**	22 **C**	23 **C**	24 **C**	25 **A**	26 **B**	27 **D**	28 **C**	29 **D**	30 **A**
31 **C**	32 **B**	33 **B**	34 **A**	35 **C**	36 **C**	37 **A**	38 **C**	39 **B**	40 **D**
41 **D**	42 **B**	43 **C**	44 **A**	45 **B**	46 **A**	47 **C**	48 **B**	49 **D**	50 **D**
51 **D**	52 **C**	53 **C**	54 **C**	55 **D**	56 **C**	57 **A**	58 **C**	59 **D**	60 **D**
61 **C**	62 **B**	63 **B**	64 **B**	65 **A**	66 **D**	67 **B**	68 **C**	69 **B**	70 **C**
71 **B**	72 **C**	73 **B**	74 **C**	75 **D**	76 **B**	77 **D**	78 **D**	79 **A**	80 **C**
81 **C**	82 **C**	83 **B**	84 **A**	85 **B**	86 **A**	87 **A**	88 **A**	89 **B**	90 **A**
91 **B**	92 **A**	93 **C**	94 **A**	95 **E**	96 **B**	97 **D**	98 **B**	99 **C**	100 **A**

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Solutions

Questions

1 **Answer: B**

Correct answer: **B — $(x-2)^2+(y-2)^2=13$.**

2 **Answer: C**

Correct answer: **C — 10%.**

3 **Answer: A**

Correct answer: **A — 24,000.**

4 **Answer: B**

Correct answer: **B — A-IV, B-I, C-II, D-III.**

5 **Answer: C**

Correct answer: **C — (2600, 2400).**

6 **Answer: B**

Correct answer: **B — 25%.**

7 **Answer: B**

Correct answer: **B — A and C only.**

8 **Answer: A**

Correct answer: **A — -91.**

9 **Answer: A**

Correct answer: **A — ₹ 264.**

10 **Answer: D**

Correct answer: **D —** $\frac{n}{n+1}$.

11 **Answer: D**

Correct answer: **D — 120.**

12 **Answer: C**

Correct answer: **C — 13 m.**

13 **Answer: B**

Correct answer: **B — 3 Years**.

14 **Answer: A**

Correct answer: **A — 5**.

15 **Answer: C**

Correct answer: **C — Statement (I) is true but Statement (II) is false.**.

16 **Answer: A**

Correct answer: **A — Both Statement (I) and Statement (II) are true.**.

17 **Answer: C**

Correct answer: **C — Statement (I) is false but Statement (II) is true.**.

18 **Answer: C**

Correct answer: **C — 814**.

19 **Answer: B**

Correct answer: **B — 8 km/hr**.

20 **Answer: A**

Correct answer: **A — 124**.

21 **Answer: A**

Correct answer: **A — 6 and 36**.

22 **Answer: C**

Correct answer: **C — 19 years**.

23 **Answer: C**

Correct answer: **C —** $(\sqrt{2}-1)r$.

24 **Answer: C**

Correct answer: **C —** a^2+2ac.

25 **Answer: A**

Correct answer: **A — 3**.

26 **Answer: B**

Correct answer: **B — A-III, B-II, C-IV, D-I**.

27 **Answer: D**

Correct answer: **D — $15 + \sqrt{15} + 2\sqrt{30}$.**

28 **Answer: C**

Correct answer: **C — 22**.

29 **Answer: D**

Correct answer: **D — 500**.

30 **Answer: A**

Correct answer: **A — Both Statement (I) and Statement (II) are true.**.

31 **Answer: C**

Correct answer: **C — Statement (I) is true but Statement (II) is false.**.

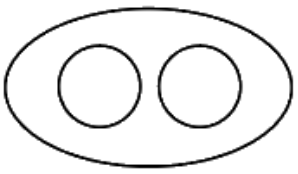
32 **Answer: B**

Correct answer: **B — 42**.

33 **Answer: B**

Correct answer: **B — $\frac{1}{2}$ or −1**.

34 **Answer: A**

Correct answer: **A —**  .

35 **Answer: C**

Correct answer: **C — Uncle**.

36 **Answer: C**

Correct answer: **C — Only I and IV follow**.

37 **Answer: A**

Correct answer: **A — LXAGD**.

38 **Answer: C**

Correct answer: **C — A**.

39 **Answer: B**

Correct answer: **B — Rohit**.

40 **Answer: D**

Correct answer: **D — OQRT**.

41 **Answer: D**

Correct answer: **D — Brother**.

42 **Answer: B**

Correct answer: **B — O and U**.

43 **Answer: C**

Correct answer: **C — 5/2**.

44 **Answer: A**

Correct answer: **A — 343**.

45 **Answer: B**

Correct answer: **B — 98**.

46 **Answer: A**

Correct answer: **A — 158**.

47 **Answer: C**

Correct answer: **C — 5 km**.

48 **Answer: B**

Correct answer: **B — 22**.

49 **Answer: D**

Correct answer: **D — Insects**.

50 **Answer: D**

Correct answer: **D — 150**.

51 **Answer: D**

Correct answer: **D — BDGJ**.

52 **Answer: C**

Correct answer: **C — contemporary**.

53 **Answer: C**

Correct answer: **C — of**.

54 **Answer: C**

Correct answer: **C — down**.

55 **Answer: D**

Correct answer: **D — administered .... combat**.

56 **Answer: C**

Correct answer: **C — itself**.

57 **Answer: A**

Correct answer: **A — examine**.

58 **Answer: C**

Correct answer: **C — to**.

59 **Answer: D**

Correct answer: **D — The enemy was compelled to surrender by us.**.

60 **Answer: D**

Correct answer: **D — He was selected the best player of the tournament.**.

61 **Answer: C**

Correct answer: **C — The coach ordered the player not to leave the camp.**.

62 **Answer: B**

Correct answer: **B — occasional**.

63 **Answer: B**

Correct answer: **B — B**.

64 **Answer: B**

Correct answer: **B — The wounded man was being helped by some boys**.

65 **Answer: A**

Correct answer: **A — A**.

66 **Answer: D**

Correct answer: **D — Although my grandfather is very old, he is very active.**.

67 **Answer: B**

Correct answer: **B — Simile and Alliteration**.

68 **Answer: C**

Correct answer: **C — enslaved**.

69 **Answer: B**

Correct answer: **B — B**.

70 **Answer: C**

Correct answer: **C — grateful .... possible**.

71 **Answer: B**

Correct answer: **B — Energetic**.

72 **Answer: C**

Correct answer: **C — He asked me what I was doing.**.

73 **Answer: B**

Correct answer: **B — is**.

74 **Answer: C**

Correct answer: **C — arrive**.

75 **Answer: D**

Correct answer: **D — QPRS**.

76 **Answer: B**

Correct answer: **B — He exclaimed that he was very wise.**.

77 **Answer: D**

Correct answer: **D — reveal**.

78 **Answer: D**

Correct answer: **D — He didn't like to attend the lecture**.

79 **Answer: A**

Correct answer: **A — A**.

80 **Answer: C**

Correct answer: **C — gloomy**.

81 **Answer: C**

Correct answer: **C — SQPR**.

82 **Answer: C**

Correct answer: **C — 14 : 138**.

83 **Answer: B**

Correct answer: **B — 81.70%**.

84 **Answer: A**

Correct answer: **A — 2001**.

85 **Answer: B**

Correct answer: **B — Girls-40, Boys-40, Total-80**.

86 **Answer: A**

Correct answer: **A — 5, 10**.

87 **Answer: A**

Correct answer: **A — 25, 10**.

88 **Answer: A**

Correct answer: **A — 5, 30**.

89 **Answer: B**

Correct answer: **B — 120**.

90 **Answer: A**

Correct answer: **A — 180**.

91 **Answer: B**

Correct answer: **B — 47**.

92 **Answer: A**

Correct answer: **A — 15**.

93 **Answer: C**

Correct answer: **C — 7:9**.

94 **Answer: A**

Correct answer: **A — 14**.

95 **Answer: E**

Correct answer: **E**.

96 **Answer: B**

Correct answer: **B — 10**.

97 **Answer: D**

Correct answer: **D — by developing qualities of mutual help**.

98 **Answer: B**

Correct answer: **B — great instinct for co-operation**.

99 **Answer: C**

Correct answer: **C — Man's Moral and Spiritual Development**.

100 **Answer: A**

Correct answer: **A — Moral Turpitude**.

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