

Gender: *

- ☐ Male
- ☐ Female

1) The two specific numbers are in the ratio 6:7, if the HCF of the given numbers is 30, what will be the numbers? *

- ☐ A. 160, 180
- ☒ B. 180, 210
- ☐ C. 200, 160
- ☐ D. None of these

2) Determine the largest length of the tape, which can measure tape of 5 cm, 7cm, and 13 cm? *

- ☒ A. 1
- ☐ B. 13
- ☐ C. 7
- ☐ D. 9

3) The HCF of two numbers is 45, and their LCM is 90. If one specific number is 9, find the other number. *

- ☒ A. 450
- ☐ B. 426
- ☐ C. 435
- ☐ D. 485



4) Luaa spends her monthly salary in the following manner: 20% on house rent, 20% on food, 5 % on transportation, 10% on education, and 20% on other household expenses. She saves the remaining amount of Rs. 5000 at the end of the month. Find out her monthly salary? *

- ☐ A. Rs. 35000
- ☐ B. Rs. 25000
- ☒ C. Rs. 20000
- ☐ D. Rs. 30000

5) A man spends 60% of his income. Suppose his income is increased by 21% and his expenditure increases by 5%, then what is the increase in his savings (in percentage)? *

- ☐ A. 60%
- ☐ B. 18%
- ☐ C. 40%
- ☒ D. 45%

6) If the price of an article is increased by 18%, determine by how much percent must a user reduce the use, so that expenditure on it remains unchanged? *

- ☐ A. 16.24%
- ☐ B. 16%
- ☐ C. 25%
- ☒ D. 15.3%



7. The government had released a very good scheme for local vendors on the variety of rice and their prices .A local dealer purchased two varieties of rice, 100 kilogram at Rs.14.50 per kilogram and 110 kilogram at Rs.15 per kilogram. The shopkeeper, being greedy, had combined the two varieties of rice and sold the mixture at a profit of 15 %. Calculate the S.P of the mixture per KG. *

- ☒ A. Rs 16.97
- ☐ B. Rs 17.85
- ☐ C. Rs 13.45
- ☐ D. None of these

8. Raman lives in pune, he and his dad together opened a new Casio watch showroom on his birthday. Raman sold two watches at the same price, one at 10 % profit and other at 10 % loss. Find his overall gain or loss percent. *

- ☐ A. 1.25%
- ☐ B. 2%
- ☒ C. 1%
- ☐ D. 5%

9. Havells is a leader in the market for water heaters. A salesman of havells is selling a liquid heater kettle for Rs. 4200, the salesman incurs a loss of 20%. If he wants to earn a profit of 20%, at what price should he sell the liquid heater kettle? *

- ☐ A. Rs 7000
- ☒ B. Rs 6300
- ☐ C. Rs 2200
- ☐ D. Rs 9900



10. TGeorge and Victor can finish making a painting in 12 hours, Victor and Sam *
in 15 hours, Sam and George in 20 hours. Find how many hours will they together
finish the painting?

- ☐ A. 21
- ☐ B. $21\frac{1}{2}$
- ☒ C. 10
- ☐ D. 11

11. Mary is three times as good as Johnny. If they finish a task together in 15 *
days, calculate the days taken by Mary alone to complete the work.

- ☒ A. 20
- ☐ B. 30
- ☐ C. 25
- ☐ D. 17

12. M can do a task in 25 days, and S can finish a similar job in 20 days. They *
work as one for five days and M goes away. Calculate the days required by S to do
the work then?

- ☐ A. 12
- ☐ B. 17
- ☒ C. 11
- ☐ D. 21.5



13. A dog takes 3 leaps for every 5 leaps of a hare. If one leap of the dog is equal to 3 leaps of the hare, the ratio of the speed of the dog to that of the hare is :

- ☐ A. 8:4
- ☐ B. 9:4
- ☒ C. 9:5
- ☐ D. 9:7

14. In college, the ratio of the number of boys to girls is 8 : 5. If there are 160 girls, the total number of students in the college is:

- ☐ A. 550
- ☐ B. 300
- ☒ C. 416
- ☐ D. 200

15. Eesha bought two varieties of rice, costing 50 rs per kg and 60 rs per kg each, and mixed them in some ratio. Then she sold the mixture at 70 rs per kg. Making a profit of 20 percent. What was the ratio of the mixture?

- ☐ A. 2:1
- ☒ B. 1:5
- ☐ C. 2:4
- ☐ D. 1:8



16. If $x = 1 + \frac{21}{2}$ and $y = 1 - \frac{21}{2}$, then $x^2 + y^2$ is: *

- ☐ A. $\frac{107}{2}$
- ☐ B. $\frac{997}{2}$
- ☒ C. $\frac{203}{2}$
- ☐ D. $\frac{445}{2}$

17. If $xy = yx$ and $x = 2y$, the value of y is: *

- ☒ A. 1
- ☐ B. 3
- ☐ C. 2
- ☐ D. 4

18. If $a < 0$ then calculate the maximum value of $\frac{9}{a} + \frac{a}{9}$? *

- ☐ A. -5
- ☒ B. 4
- ☐ C. -2
- ☐ D. -9



19. A jug has 5 parts of tomato soup and 3 parts of water. Now if we want a new * combination with $\frac{1}{2}$ water and $\frac{1}{2}$ tomato soup, how much of the mixture must be swapped with water?

- ☐ A. $\frac{1}{3}$
- ☒ B. $\frac{1}{5}$
- ☐ C. $\frac{1}{4}$
- ☐ D. $\frac{1}{7}$

20. In what proportion must kerosene be mixed with petrol to earn $16\frac{2}{3}\%$ if * we sell the combination at cost price?

- ☐ A. 2:7
- ☐ B. 2:3
- ☐ C. 6:1
- ☒ D. 1:6

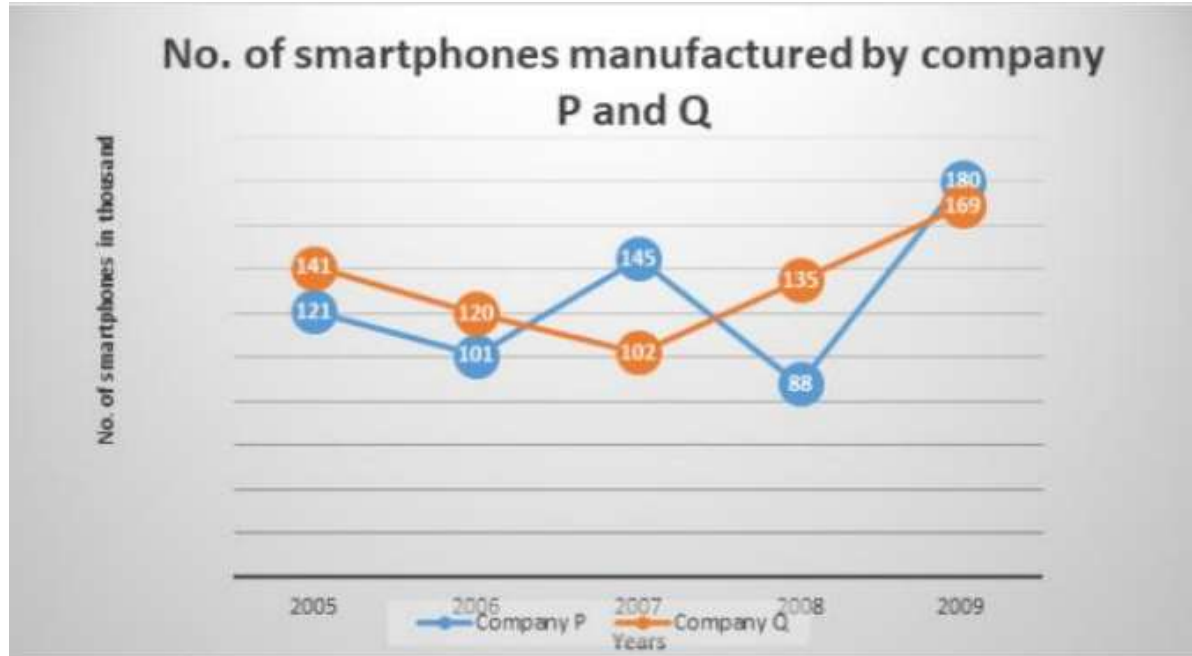
21. A lemon water hawker has two pots of lemon water. The first pot has 75% of * lemon water. The second has 50% lemon water. How much lemon water should he mix from each of the pots so as to get 12 litres of lemon water such that the proportion of lemon water to soda is 5 : 3?

- ☐ A. 12 Litres
- ☐ B. 8 Litres
- ☐ C. 10 Litres
- ☒ D. 6 Litres



22. The line chart below shows the number of smartphones manufactured by company P and Q from the year 2005 to 2009. Study the graph carefully and answer the questions accordingly.

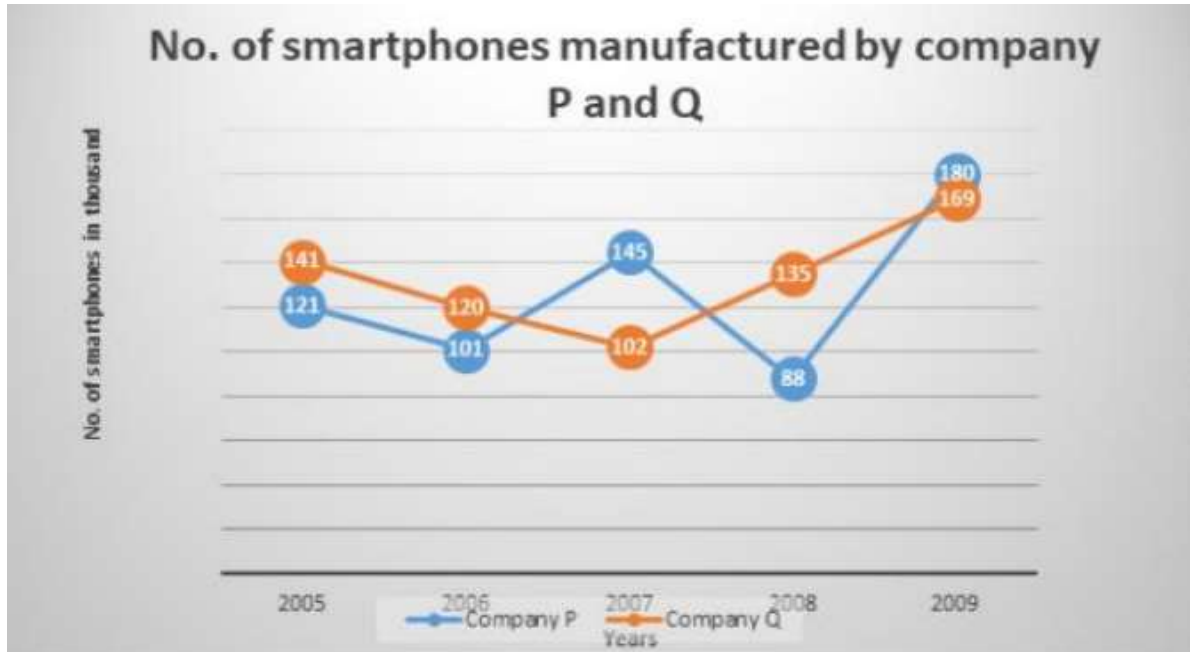
Identify the difference between the smartphones produced by Company Q in 2008 and 2009?



- ☐ A. 31000
- ☒ B. 34000
- ☐ C. 32500
- ☐ D. 36500

23. The line chart below shows the number of smartphones manufactured by company P and Q from the year 2005 to 2009. Study the graph carefully and answer the questions accordingly.

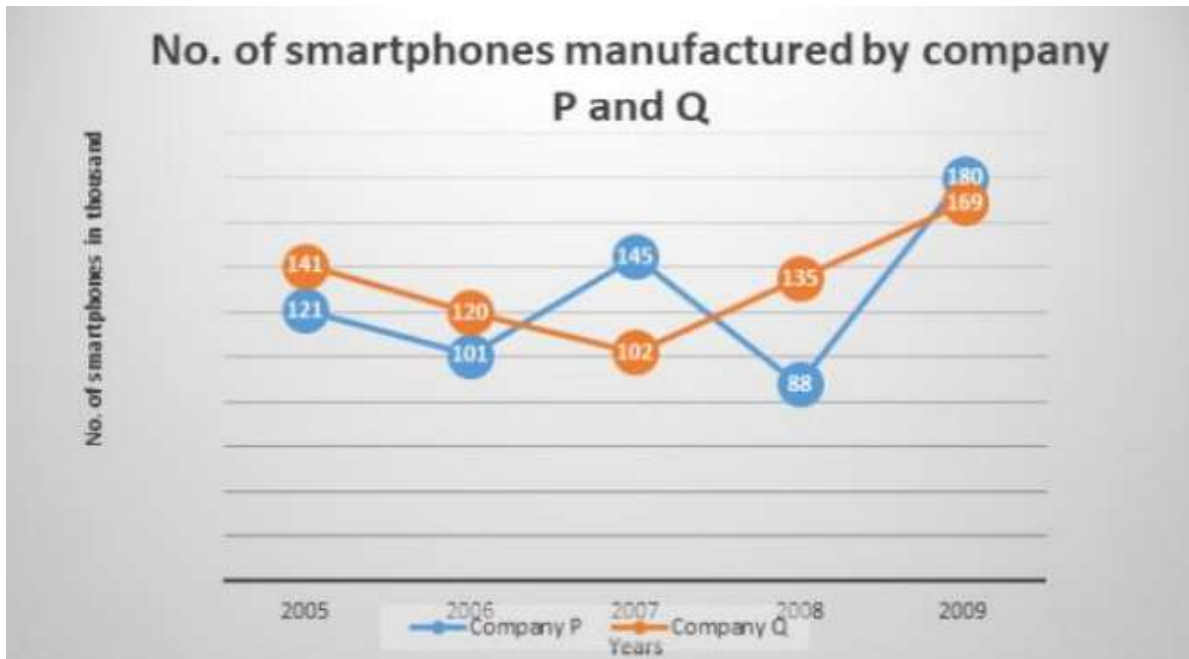
Find the difference of between the smartphones produced by two Companies from 2005 to 2009.



- ☒ A. 32000
- ☐ B. 31500
- ☐ C. 34000
- ☐ D. 39500

24. The line chart below shows the number of smartphones manufactured by company P and Q from the year 2005 to 2009. Study the graph carefully and answer the questions accordingly.

Find the approximate average number of smartphones produced by company P?



- ☐ A. 105900
- ☐ B. 106989
- ☒ C. 105833
- ☐ D. 100000

25. Find the mean of the first 10 odd integers. *

- ☒ A. 10
- ☐ B. 18
- ☐ C. 20
- ☐ D. 8

26. What is the median of the following data set? *

32, 6, 21, 10, 8, 11, 12, 36, 17, 16, 15, 18, 40, 24, 21, 23, 24, 24, 29, 16, 32, 31, 10, 30, 35, 32, 18, 39, 12, 20

- ☒ A. 21
- ☐ B. 19
- ☐ C. 20
- ☐ D. 25

27. Identify the mode for the following data set: *

21, 19, 62, 21, 66, 28, 66, 48, 79, 59, 28, 62, 63, 63, 48, 66, 59, 66, 94, 79, 19 94

- ☐ A. 160
- ☒ B. 66
- ☐ C. 85
- ☐ D. None of these

28. What is the formula for calculating standard deviation? *

- ☒ A. $\sqrt{(\sum(x - \mu)^2/n)}$
- ☐ B. $\sqrt{\sum(x - \mu)^2/n}$
- ☐ C. $\sum(x - \mu)^2/n$
- ☐ D. $\sum(x - \mu)/n$



29. What is the purpose of calculating variance and standard deviation? *

To measure the:

- ☐ A. central tendency of data
- ☒ B. variability of data
- ☐ C. spread of data
- ☐ D. skewness of data

30. What is the formula for variance? *

- ☐ A. $\sqrt{\sum(x - \mu)^2/n}$
- ☐ B. $\sqrt{\sum(x - \mu)^2/n}$
- ☒ C. $\sum(x - \mu)^2/n$
- ☐ D. $\sum(x - \mu)/n$

31. In a certain code 'SELDOME' is written as 'SLEODEM'. How would 'KANGANA' * be written in that code?

- ☐ A. AKGNNA
- ☐ B. NAKNAGA
- ☒ C. KNAAGAN
- ☐ D. ANAGNAK



32. If KITE is written as ROYL, HDML may be written as: *

- ☒ A. OJRM
- ☐ B. OKRM
- ☐ C. NJRM
- ☐ D. IENJ

33. If K = 11 and SHIFT = 62, then SHAKIRA = ? *

- ☐ A. 79
- ☒ B. 67
- ☐ C. 56
- ☐ D. 57

34. Painting: Frame :: book : *

- ☐ A. KNOWLEDGE
- ☐ B. READING
- ☒ C. COVER
- ☐ D. PRINTING

35. Creation : destruction :: peace : *

- ☐ A. HARMONY
- ☐ B. LIFE
- ☒ C. CHAOS
- ☐ D. BUILD



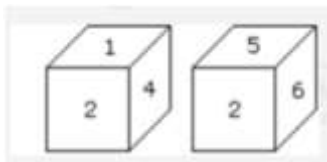
36. N/Q : 14/17 :: J/R : *

- ☐ A. 11/19
- ☐ B. 9/10
- ☐ C. 11/20
- ☒ D. 10/18

37. Pick the odd one out of the four? *

- ☒ A. 841
- ☐ B. 627
- ☐ C. 949
- ☐ D. 501

38. From the below given number find out the number which will be opposite to number 5? *



- ☐ A. 3
- ☐ B. 4
- ☒ C. 1
- ☐ D. 6



39. A dice is numbered from A to F in different ways. *

If A is adjacent to B, C and E, then which of the following statements is necessarily true?

- ☒ A. D is adjacent to F
- ☐ B. A is adjacent to F
- ☐ C. B is adjacent to E
- ☐ D. A is adjacent to D

40. What is the angle between the minute hand and the hour hand of a clock at 2:30? *

- ☐ A. 30°
- ☐ B. 60°
- ☐ C. 45°
- ☒ D. 75°

41. If 1st January 2023 is a Monday, what day is 1st January 2024? *

- ☐ A. Wednesday
- ☒ B. Tuesday
- ☐ C. Monday
- ☐ D. Thursday



42. If it was Friday on 1st January of a year, what day was it on 1st March of the same year? *

- ☐ A. Friday
- ☐ B. Sunday
- ☐ C. Saturday
- ☒ D. Monday

43. Fill in the right preposition: *

He came here with a bad intention _____ humiliate me.

- ☐ A. For
- ☐ B. On
- ☒ C. To
- ☐ D. About

44. Arrange the following sentences in the correct order. *

A. Till date it has no cure.

B. Ebola outbreak is the most deadly virus in human history.

C. Research is still at large to find the cure.

D. It has taken numerous lives in Africa.

- ☐ A. BDEC
- ☐ B. ABDC
- ☐ C. ABCD
- ☒ D. BDCA



45. Shia hearing the news of mars mission which was initiated by ISRO. *

- ☒ A. Hearing
- ☐ B. Which
- ☐ C. Of
- ☐ D. No error

46. Convert the sentence to active voice: *

He died in 2016.

- ☐ A. He died
- ☐ B. He is dead
- ☐ C. In 2016, he died
- ☒ D. None of these

47. Someone unknown tipped off the police about the plan to rob the bank. *

- ☐ A. Bribed
- ☒ B. Given advance information
- ☐ C. Kill someone
- ☐ D. None of these



48. The retail business managed to steal a march on its competitors by signing an exclusive export agreement with Europe. *

- ☒ A. To start early
- ☐ B. To overtake
- ☐ C. To give up
- ☐ D. To outshine

49. Dialogue writing is _____ useful form of composition. *

- ☒ A. a
- ☐ B. the
- ☐ C. an
- ☐ D. None of these

50. A reflection is ---- thought on some subject or on ---- idea arising in the mind. *

- ☐ A. an, a
- ☐ B. a , the
- ☒ C. a, an
- ☐ D. None of these



51. The dance program ----- every day at 10.30 am on weekdays. *

- ☐ A. Started
- ☒ B. Starts
- ☐ C. Will start
- ☐ D. None of these

52. The doctor suggested to take an Ibuprofen _____ get rid of the pain. *

- ☐ A. Of
- ☐ B. With
- ☐ C. To
- ☒ D. For

53. Mother Teresa spent her whole life working _____ the betterment of society. *

- ☒ A. towards
- ☐ B. For
- ☐ C. into
- ☐ D. with



54. The marketing students were asked to create a heading _____ the final presentation. *

- ☐ A. By
- ☐ B. With
- ☒ C. for
- ☐ D. from

55. You may take a bus _____ go by a car. *

- ☐ A. or
- ☒ B. but
- ☐ C. and
- ☐ D. unless

56. In the below-given questions, select the word which best expresses the meaning from the options provided for the given word. *

BRIEF

- ☐ A. Little
- ☐ B. Small
- ☒ C. Short
- ☐ D. Limited



57. In the below-given questions, select the word which you feel is the opposite *
of the given word.

OBEYING

- ☐ A. Denying
- ☒ B. Refusing
- ☐ C. Arguing
- ☐ D. None of these



58. Perhaps the most important insight to be gained from the perception demonstration is in the area of paradigm shifting, what we might call the "Aha!" experience when someone finally "sees" the composite picture in another way. The more bound a person is by the initial perception, the more powerful the "Aha!" experience is. It's as though a light were suddenly turned on inside. *

The term Paradigm Shift was introduced by Thomas Kuhn in his highly influential landmark book, *The Structure of Scientific Revolutions*. Kuhn shows how almost every significant breakthrough in the field of scientific endeavour is first a break with tradition, with old ways of thinking, with old paradigms.

For Ptolemy, the great Egyptian astronomer, the earth was the centre of the universe. But Copernicus created a Paradigm Shift, and a great deal of resistance and persecution as well, by placing the sun at the centre. Suddenly, everything took on a different interpretation.

The Newtonian model of physics was a clockwork paradigm and is still the basis of modern engineering. But it was partial, incomplete. The scientific world was revolutionised by the Einsteinian paradigm, the relativity paradigm, which had much higher predictive and explanatory value.

Until the germ theory was developed, a high percentage of women and children died during childbirth, and one could understand why. In military skirmishes, more men were dying from small wounds and diseases than from the major traumas on the front lines. But as soon as the germ theory was developed, a whole new paradigm, a better, improved way of understanding what was happening made dramatic, significant medical improvement possible.

In the above paragraph the word 'perception' means:

- ☐ A. The ability to imagine
- ☒ B. The ability to see
- ☐ C. The ability to dream
- ☐ D. To create predictions



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Find the correct synonym for the word 'skirmish'.

- ☒ A. Combat
- ☐ B. Argue
- ☐ C. Victory
- ☐ D. Lost

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In the above paragraph 'Paradigm shift' means:

- ☐ A. Shifting of planets
- ☐ B. A scientific endeavour
- ☒ C. Fundamental changes in basic concept
- ☐ D. Paragraph editing

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