Detailed solution: 1

2

**A cheetah runs at a speed of 126 kmph. It covers distance of 350 m in:**

**Timeline**

**Your answer at: 27:18**

**Time Spent:**82 sec

5 seconds

20 seconds

Not Sure

10 seconds

Correct Answer

15 seconds

3

**The cost of 15 packets of biscuits, each weighting 750 grams, is Rs. 300. What will be the approximate cost of 25 packets, if each packet weighs 1 kg? (Note: it is known that cost of each packet depends on its weight)**

**Timeline**

**Your answer at: 30:55**

**Time Spent:**196 sec

Rs.549

Rs.700

Rs.333

Not Sure

Rs.667

Correct Answer

4

**Pauls's age is three times of the sum of ages of his two daughters. Five years from now, his age will be twice the sum of the ages of his two daughters. Find his present age.**

**Timeline**

**Your answer at: 43:04**

**Time Spent:**51 sec

40 years

55 years

50 years

Not Sure

45 years

Correct Answer

5

**What is the percentage increase in the population of the country from 2014 to 2017 if it increases at a rate of 20% from 2014 to 2015 and again 20% from 2015 to 2016 but reduces at a rate of 10% during 2016 to 2017?**

**Timeline**

**Your answer at: 43:12**

**Time Spent:**76 sec

29.60%

Correct Answer

24.40%

26.20%

Not Sure

22.40%

**Detailed Solutions:**

Detailed solution: 1

6

**A person is standing on a railway bridge which is 200m long. He observes that a train crosses the bridge in 30 seconds but it crosses him in 10 seconds. Find the length of train and its speed.**

**Timeline**

**Your answer at: 88:39**

**Time Spent:**131 sec

75m, 8m/s

100m, 10m/s

Correct Answer

300m, 30m/s

Not Sure

200m, 20m/s

7

**Simplify: log10(5) \* log15(10) \* log20(15) \* log25(20) \* ------- \* log50(45)**

**Timeline**

**Your answer at: 88:45**

**Time Spent:**122 sec

log5(50)

log50(5)

log50(5 + 10 + \_\_\_\_\_ + 45)

None of the mentioned options

Not Sure

8

**3 boys can complete a work in 9 days. 1 boy can complete it in:**

**Timeline**

**Your answer at: 88:44**

**Time Spent:**55 sec

54 days

Not Sure

18 days

27 days

Correct Answer

36 days

9

**When five times a number is added to twice the square of the same number, the result is 102. What is the number?**

**Timeline**

**Your answer at: 88:43**

**Time Spent:**86 sec

Not Sure

7

6

Correct Answer

8

5

10

**Determine the average of the following data. 40, 19, 75, 83, 56, 33**

**Timeline**

**Your answer at: 36:32**

**Time Spent:**49 sec

Not Sure

51

Correct Answer

52

54

53

11

**Two friends bought two bicycles whose prices were in the ratio of 1 : 5 if they sold them at a loss of 10%, the difference of the money earned by them was Rs. 3600. What was the cost price of the costlier cycle?**

**Timeline**

**Your answer at: 88:46**

**Time Spent:**57 sec

Not Sure

Rs.6500

Rs.5000

Correct Answer

Rs.5500

Rs.6000

12

**Read the information given below and answer the question that follows. f(x) = f(x-1) + f(x+1), "x" is a whole number f(0) = 2 f(2) = 0 What is the value of f(f(2))?**

**Timeline**

**Your answer at: 88:46**

**Time Spent:**138 sec

1

2

Correct Answer

Not Sure

0

Not defined

13

**A car travels first 300 kms at an average rate of 60 kmph and further travels the same distance at an average rate of 40 kmph. Determine the average speed of the car over the whole journey.**

**Timeline**

**Your answer at: 40:26**

**Time Spent:**43 sec

42 kmph

35 kmph

Not Sure

48 kmph

Correct Answer

50 kmph

14

**The ratio of the lengths of the respective diagonals of two squares is 2:1. Find the ratio of their areas.**

**Timeline**

**Your answer at: 89:06**

**Time Spent:**108 sec

5:04

4:01

5:02

4:03

Not Sure

15

**When two unbiased coins are tossed, the probability of getting both heads or both tails is:**

**Timeline**

**Your answer at: 89:03**

**Time Spent:**72 sec

0

1/4

1/2

Correct Answer

Not Sure

3/4

16

**When the price of selling of an article is doubled, then its profit percent triples. Determine the original profit percentage.**

**Timeline**

**Your answer at: 88:51**

**Time Spent:**191 sec

66.60%

135%

100%

Correct Answer

120%

Not Sure

test-2

**ds the same amount as Soundarya did. What percentage of her money did Bhavya spend?**

**Timeline**

**Your answer at: 66:42**

**Time Spent:**263 sec

88.56%

48%

59.50%

91.55%

Correct Answer

4

**I sold a book at a profit of 12%. Had I sold it for Rs. 18 more, 18% would have been gained. Find the cost price.**

**Timeline**

**Your answer at: 66:32**

**Time Spent:**49 sec

Rs. 400

Rs. 250

Rs. 350

Rs. 300

Correct Answer

5

**The probability of throwing more than 5 in a single throw of an ordinary die is:**

**Timeline**

**Your answer at: 66:45**

**Time Spent:**40 sec

0.17

Correct Answer

1

0.83

0

6

**Kushal's age is three times the sum of the ages of his two sons. 5 years hence, his age will be doubled the sum of their ages. Find Kushal's present age.**

**Timeline**

**Your answer at: 34:52**

**Time Spent:**84 sec

35 years

45 years

Correct Answer

65 years

25 years

7

**A boat takes 60 minutes less to travel 40 km downstream than to travel the same distance upstream. If the speed of the boat in still water is 15 kmph, find the speed of the stream.**

**Timeline**

**Your answer at: 66:28**

**Time Spent:**36 sec

4 kmph

2.1 kmph

2.7 kmph

Correct Answer

3.7 kmph

8

**What is the percentage of profit earned by the owner, if he marks the product 20% over the cost price and gives a discount of 10% but charges 5% of the billed price as service tax?**

**Timeline**

**Your answer at: 66:29**

**Time Spent:**33 sec

13.40%

Correct Answer

20.20%

18.40%

15.60%

9

**A man walks at a speed of 72 kmph. He covers a distance of 80 m in:**

**Timeline**

**Your answer at: 66:30**

**Time Spent:**161 sec

6 seconds

5 seconds

8 seconds

4 seconds

Correct Answer

10

**(3/11)th of 3333 is**

**Timeline**

**Your answer at: 66:31**

**Time Spent:**69 sec

927

918

909

Correct Answer

960

11

**Read the information given below and answer the question that follows. F(x) = x3 - 3 , g(x) = (1/x) - x**

**Find the value of fog(-1) - gof(-1).**

**Timeline**

**Your answer at: 66:36**

**Time Spent:**161 sec

-6.75

Correct Answer

0

1.25

-3.75

12

**Determine the average of the following data. 81, 73, 69, 17, 20**

**Timeline**

**Your answer at: 66:36**

**Time Spent:**7 sec

51

53

54

52

Correct Answer

13

**When three times a number is added to the square of the same number, the result is 70. What is the number?**

**Timeline**

**Your answer at: 66:37**

**Time Spent:**14 sec

6

5

7

Correct Answer

8

14

**Simplify: log12(11) \* log13(12) \* log14(13) \* log15(14) \* ---- \* log20(19)**

**Timeline**

**Your answer at: 66:37**

**Time Spent:**12 sec

None of the mentioned options

Log20(11 + 12 + 13 + 14 + ---- + 19)

Log20(11)

Correct Answer

Log11(20)

15

**7 boys can complete a work in 17 days. 1 boy can complete it in:**

**Timeline**

**Your answer at: 66:38**

**Time Spent:**38 sec

119 days

Correct Answer

136 days

85 days

102 days

16

**A, B and C contract a work for Rs. 550. Together, A and B are supposed to do (7/11) of the work. How much amount will "C" get?**

**Timeline**

**Your answer at: 66:39**

**Time Spent:**99 sec

Rs. 100

Rs. 400

Rs. 200

Correct Answer

Rs. 300

TEST-3

36 days

54 days

18 days

27 days

Correct Answer

3

**If a + (1/a) =4, then what is the value of (a2 - 4a + 1)?**

**Timeline**

**Your answer at: 50:28**

**Time Spent:**124 sec

0

Correct Answer

-1

1

4

4

**Determine the average of the following data. 42, 79, 92, 35, 53, 17**

**Timeline**

**Your answer at: 50:30**

**Time Spent:**112 sec

53

Correct Answer

52

51

54

5

**What is the change of getting the sum of at least 7 in a single throw of two dices together?**

**Timeline**

**Your answer at: 23:41**

**Time Spent:**122 sec

17/36

5/12

7/12

Correct Answer

1/4

6

**Simplify: Log3(3) \* log5(3) \* log7(5) \* log9(7) \* ---- \* log21(19)**

**Timeline**

**Your answer at: 24:18**

**Time Spent:**37 sec

Log21(3)

Correct Answer

Log21(3 + 5 + 7 + ----- + 19)

None of the mentioned options

Log3(21)

7

**(4/13)th of 299 is:**

**Timeline**

**Your answer at: 25:45**

**Time Spent:**87 sec

82

92

Correct Answer

46

44

8

**The distance between two cities is 30 miles on the motorway or 25 miles on the other roads. At the peak hours, the average speed on the motorway is 36 mph and the average speed on the other roads is 37.5 mph. which is the quicker journey?**

**Timeline**

**Your answer at: 50:39**

**Time Spent:**113 sec

Both the journeys, motorway and other roads, will take same time.

Motorway

Data inadequate

Other roads

Correct Answer

9

**A man can do a work in 10 days. With the help of a boy, he can do the same work in 6 days. If they get Rs. 50 for that work, what is the share of boy?**

**Timeline**

**Your answer at: 51:11**

**Time Spent:**158 sec

Rs. 30

Rs. 40

Rs. 10

Rs. 20

Correct Answer

10

**Mike has a truck with wheels having the circumference of 14.28 m and they make 4 revolutions in 7 seconds. The approximate speed of Mike's truck is:**

**Timeline**

**Your answer at: 51:22**

**Time Spent:**59 sec

29 kmph

Correct Answer

25 kmph

15 kmph

20 kmph

11

**In a company, there are 40 team members. Which of the following cannot be the ratio of number of male employees to the number of female employees?**

**Timeline**

**Your answer at: 51:18**

**Time Spent:**87 sec

9:13

Correct Answer

3:5

7:13

4:1

12

**A population of a certain town is 1,25,000. If the annual birth rate is 3.3% and the annual death rate is 1.3%, then the approximate population after 3 years will be:**

**Timeline**

**Your answer at: 33:19**

**Time Spent:**87 sec

174523

126543

163251

132651

Correct Answer

13

**Read the information given below and answer the question that follows.**

**[a] = Greatest integer less than or equal to a**

**(a) = Smallest integer greater than or equal to a**

**Find the value of [2.9] - (4.1).**

**Timeline**

**Your answer at: 51:39**

**Time Spent:**82 sec

-1

-2

-3

Correct Answer

-4

14

**A car travels first 300 kms at an average rate of 60 kmph and further travels the same distance at an average rate of 40 kmph. Determine the average speed of the car over the whole journey.**

**Timeline**

**Your answer at: 51:44**

**Time Spent:**50 sec

35 kmph

50 kmph

48 kmph

Correct Answer

42 kmph

15

**Soundarya has Rs. 25,000 with her and her friend Bhavya has Rs. 4,096 with her. Soundarya spends 15% of her money and Bhavya also spends the same amount as Soundarya did. What percentage of her money did Bhavya spends?**

**Timeline**

**Your answer at: 35:16**

**Time Spent:**9 sec

48%

88.56%

59.50%

91.55%

Correct Answer

16

**What is the percentage increase in the population of the country from 2014 to 2017 if it increases at a rate of 20% from 2014 to 2015 and at a rate of 30% from 2015 to 2016 but reduces at a rate of 10% during 2016 to 2017?**

**Timeline**

**Your answer at: 36:44**

**Time Spent:**88 sec

40.40%

Correct Answer

48.60%

46.60%

42.40%

TEST-4

1

**(12/11)th of 473 is**

**Time Spent:**112 sec

506

504

516

Correct Answer

Not sure

518

2

**Santhosh purchases bananas at the rate of Rs.10 per dozen and sells them at the rate of Rs.12 for every 10 bananas. Find his profit/loss percent**

33.33%

22%

44%

Correct Answer

Not sure

50%

3

**"A" is earning 30% more than "B" and "B" is earning 40% more than "C". "A" is spending 10% more than "C". What percent of C's income is A's saving?**

Not sure

80%

Data insufficient

Correct Answer

65%

75%

4

**A cheetah runs at a speed of 144kmph. It covers a distance of 360 m in:**

9 secs

Correct Answer

Not sure

10 secs

7 secs

8 secs

5

**A can do a work in 6 days and B can do the same work in 5 days. The contract for the work is Rs.220.How much shall B get if both of them work together?**

Rs. 100

Rs. 140

Rs.120

Correct Answer

Not sure

Rs.130

6

**When three times a number is added to the square of the same number, the result is 70. what is the number?**

Not sure

6

8

7

Correct Answer

5

7

**Determine the average of the following data. 18, 66, 12, 74, 35**

40

43

42

41

Correct Answer

Not sure

8

**4 boys can complete a work in 17 days. 1 boy can complete it in:**

**Time Spent:**11 sec

68 days

Correct Answer

51 days

85 days

102 days

Not sure

9

**Mike has a truck with wheels having the circumference of 14.28m and they make 4 revolutions in 7 seconds. The approximate speed of Mike's truck is:**

25kmph

29kmph

Correct Answer

20 kmph

Not sure

15kmph

10

**The rate of compound interest at which a sum of Rs. 8000/- amounts to rupees 8820 in 2 years is?**

**Timeline**

**Your answer at: 15:43**

**Time Spent:**8 sec

4 %

6 %

7 %

5 %

Correct Answer

11

**Read the information given below and answer the question that follows**

**[a] = Greatest integer less than or equal to a**

**(a) = Smallest integer greater than or equal to a**

**Find the value of [2.9]-(4.1)**

-1

-3

Correct Answer

-4

-2

Not sure

**Status:**Wrong

12

**A car travels first 300 kms at an average rate of 80kmph and further travels the same distance at an average rate of 60 kmph. Determine the average speed of the car over the whole journey**

70 kmph

45 kmph

68.57 kmph

Correct Answer

52.95 kmph

13

**Mr. Raghuvender's salary was increased by 40% and then in another quarter it was again increased by 40%. The original salary gets increased by:**

**Timeline**

**Your answer at: 18:00**

**Time Spent:**45 sec

40%

Not sure

80%

96%

Correct Answer

88%

14

**What is the percentage of profit earned by shopkeeper if he earns 10% of the product weight in weighing and 10% profit in pricing the product ?**

**Timeline**

**Your answer at: 18:20**

**Time Spent:**20 sec

Not sure

26.60%

22.22%

Correct Answer

24.36%

20.23%

15

**Simplify: log10(5) \* log15(10)\* log20(15)\* log25(20)\*\_\_\_\_\_\* log50(45)**

**Timeline**

**Your answer at: 19:46**

**Time Spent:**6 sec

log5(50)

log50(5+10+ \_\_\_\_+45)

Not sure

log50(5)

Correct Answer

None of the mentioned options

16

**If P(A-B) =1/5, P(A) = 1/3 and P(B) =1/2, then what is the probability that out of the two events A and B, only B would occur?**

11/30

Correct Answer

13/30

17/30

1/2

Test 5

1

**Simplify:**

**log12(11) \* log13(12) \*log14(13)\* log15(14)\*\* log20(19)**

log20(11)

Correct Answer

None & the mentioned options

log11(20)

log20(11+12+13+14+\_\_\_\_\_+19)

Not Sure

2

**Comino, a pizza manufacturing company, sells 1 lakh pizzas in a month. The cost of making one pizza is Rs.500 and the company invests 25% of the manufacturing cost in an advertisement. The cost of delivering pizzas is borne by the company and is approximately 30% of the manufacturing cost. At what price should the pizzas be sold in order- to gain 15% overall profit?**

Not Sure

Rs.768.25

Rs.891.25

Correct Answer

Rs.659.25

Rs.924.25

3

**Assume that a pathway is being created through two circular figures represented by the equations below:**

**(x + 2)2 + (y - 6)2 = 16**

**(x+ 2)2+(y-6)2 =81**

**What is the area of the pathway, in sq. units, thus created?**

30 ∏

65∏

Correct Answer

40∏

Not Sure

20∏

4

**A and B can do a piece of work in 12 days, B and C In 15 days, C and A in 20 days. How long would it take for 'C to do the same work alone?**

55 days

60 days

Correct Answer

50 days

56 days

Not Sure

5

**Two dice with the face marked 1, 2. 3, 4, 5, 6 are thrown simultaneously and the points on the dice are multiplied together. The probability that product Is 12 Is:**

None of the mentioned options

4/36

Correct Answer

Not Sure

12/36

5/36

6

**Zankrut covers three successive 2 km laps at speeds of 20 kmph, 30 kmph and 40 kmph respectively. His average speed over this distance is:**

Not Sure

14.2 kmph

20 kmph

27.7 kmph

Correct Answer

13.8 kmph

7

**(6/15)th of 240 is:**

84

96

Correct Answer

Not Sure

108

102

8

**Two friends bought two bags whose prices were In the ratio of 1 : 3. If they sold them at a loss of 10%, the difference of the money earned by them was Rs.360. What was the cost price of the cheaper bag?**

RS.400

Rs.100

Rs.200

Correct Answer

Not Sure

Rs.300

9

**A man walks at a speed of 72 kmph. He covers a distance of 80 m in:**

6 seconds

Not Sure

8 seconds

5 seconds

4 seconds

Correct Answer

10

**The number of diagonals of a polygon having 14 sides is:**

**Timeline**

**Your answer at: 35:49**

**Time Spent:**73 sec

48

112

77

Correct Answer

Not Sure

85

11

**3 boys can complete a work in 9 days. 1 boy can complete it in:**

36 days

18 days

27 days

Correct Answer

54 days

Not Sure

12

**A kg of sugar costs Rs.49.50. But the supplier gives 10 grams less for every kg he sells. What is the approximate actual cost to the supplier (per kg)?**

Rs.51

Not Sure

Rs.50

Correct Answer

Rs.49

Rs.52

13

**Find the sum of 7 terms of the series: 11, 103, 1005,....**

**Timeline**

11111159

Correct Answer

11111149

Not Sure

1111159

1111149

14

**A car travels first 300 kms at an average rate of 30 kmph and further travels the same distance at an average rate of 50 kmph. Determine the average speed of the car over the whole journey.**

40 kmph

45kmph

Not Sure

42.5 kmph

37.5 kmph

Correct Answer

15

**A man's age is 125% of what It was 10 years ago, but 83.33% of what It will be after 10 years. What is his present age?**

40 years

Not Sure

45 years

60 years

50 years

Correct Answer

16

**The ratio of Radii of two circles is 3:4. Find the ratio of their areas.**

9:16

Correct Answer

9:05

9:55

Not Sure

9:13

TEST 6

1

**A can do a work in 6 days and B can do the same work in 5 days. The contract for the work is Rs.220. how much shall B get if both of them work together?**

**Timeline**

**Your answer at: 30:53**

**Time Spent:**250 sec

Rs.130

Not sure

Rs.120

Correct Answer

Rs.100

Rs.140

2

**If a + (1/a) = 5, Then what is the value of (a2 - 5a + 1)?**

**Timeline**

**Your answer at: 59:42**

**Time Spent:**33 sec

Not sure

0

Correct Answer

-1

1

5

3

**Determine the average of the following data.**

**45, 50, 33, 22, 15**

**Timeline**

**Your answer at: 31:50**

**Time Spent:**35 sec

32

34

Not sure

33

Correct Answer

35

4

**International Express running at (8/9) Th of its usual speed reached its destination Yarker in 54 hours. How much time could be saved if the train would have run at its original speed?**

**Timeline**

**Your answer at: 35:19**

**Time Spent:**209 sec

4hours

8 hours

7 hours

Not sure

6 hours

Correct Answer

5

**A car travels first 300 kms at an average rate of 20 kmph and further travels the same distance at an average rate of 60 kmph. Determine the average speed of the car over the whole Journey**

**Timeline**

**Your answer at: 36:03**

**Time Spent:**44 sec

45 kmph

35 kmph

Not sure

40kmph

30kmph

Correct Answer

6

**Two unbiased coins are tossed. The probability of obtaining at least one head is:**

**Timeline**

**Your answer at: 36:25**

**Time Spent:**22 sec

2/4

0

1/4

3/4

Correct Answer

Not sure

7

**(12/11)th of 473 is:**

**Timeline**

**Your answer at: 36:47**

**Time Spent:**22 sec

516

Correct Answer

506

Not sure

504

518

8

**The percentage of pure 24 carat gold present in a necklace weighing 4.5 kg is 25%. The ornament is melted to make a new anklet. How much amount at 24 carat gold (approximate) should be added to it so that its percentage in the new anklet is 30?**

**Timeline**

**Your answer at: 59:49**

**Time Spent:**17 sec

225 gm

439gm

321gm

Correct Answer

500gm

Not sure

**Status:**Wrong

9

**Paul's ages four times the sum of the ages of his two daughters. Four years from now, the difference between his age and his daughter's ages taken together will be thirty two years. And his present age.**

**Timeline**

**Your answer at: 39:22**

**Time Spent:**145 sec

52years

Not sure

42years

58years

48 years

Correct Answer

10

**The Cotton Express runs at a speed of 90 kmph. Its length is 240 m and it passes a man, walking at 10 kmph in the same direction, in "a" seconds. Determine the value of "a".**

**Timeline**

**Your answer at: 59:53**

**Time Spent:**31 sec

10.8 seconds

Correct Answer

Not sure

7.33 seconds

10.2 seconds

7.5 seconds

11

**Simplify: log 13(12) \* Iog14 (13) \* log 15(14) \* log16 (15) \* \_\_\_\_ \*log 20(19)**

**Timeline**

**Your answer at: 40:03**

**Time Spent:**14 sec

log12(20)

log20(12)

Correct Answer

Not sure

None the mentioned options

Iog 20(12 + 13 + 14 +\_\_\_\_\_\_ + 19)

12

**A, B and C hire a taxi for Rs. 2400 for one day. A, B and C used the car for 6 hours, 8 hours and 10 hours respectively. How much did C pay?**

**Timeline**

**Your answer at: 40:40**

**Time Spent:**37 sec

Rs.800

Rs.1000

Correct Answer

Rs.1200

Rs.600

13

**In a company, there are 40 team members. Which of the following cannot be the ratio of number of male employees to the number of female employees?**

**Timeline**

**Your answer at: 41:06**

**Time Spent:**26 sec

7:13

3:5

4:1

9:13

Correct Answer

Not sure

14

**A population of a certain town is 1, 25,000. If the annual birth rate is 3.3 % and the annual death rate is 1.3%, then the approximate population after 3 years will be:**

**Timeline**

**Your answer at: 43:26**

**Time Spent:**140 sec

174523

163251

Not sure

132651

Correct Answer

126543

15

**If 3 boys can complete a work in 5 days. 1 boy can complete it in:**

**Timeline**

**Your answer at: 43:30**

**Time Spent:**4 sec

20 days

15 days

Correct Answer

10 days

Not sure

25 days

16

**A person bought two watches for 480. He sold one at a loss of 15% and the other at a gain of 19% and he found that each watch was sold at the same price. Find the cost price of one of the two watches.**

**Timeline**

**Your answer at: 59:57**

**Time Spent:**54 sec

Rs. 500

Rs. 200

Correct Answer

Rs. 300

Rs.400

TEST-7

2

**The perimeter of a square equals perimeter of an equilateral triangle which in turn equals circumference of a circle. Which of the following options holds true if the areas covered by circle, triangle and square are "c", "t" and "s" respectively.**

**Timeline**

**Your answer at: 35:33**

**Time Spent:**55 sec

C > t > s

S > c > t

S > t > c

C > s > t

Correct Answer

3

**Uchit, on his bike, completes a journey in 47 hours. If it is known that he travels at 25 kmph for half the distance and at 22 kmph for the other half, then find the distance traveled.**

**Timeline**

**Your answer at: 16:21**

**Time Spent:**80 sec

1100 km

Correct Answer

1001 km

1101 km

1000 km

4

**When two unbiased coins are tossed, the probability of getting both heads or both tails is:**

**Timeline**

**Your answer at: 16:26**

**Time Spent:**5 sec

1/2

Correct Answer

0

1/4

3/4

5

**Calculate the value of log 75/16 - 2 log 5/9 + log 32/243 .**

**Timeline**

**Your answer at: 35:41**

**Time Spent:**20 sec

5log 2

Log 2

Correct Answer

2log 2

4log 2

6

**Two friends bought two bags whose prices were in the ratio of 1 : 3. If they sold them at a loss of 10%, the difference of the money earned by them was Rs. 360. What was the cost price of the cheaper bag?**

**Timeline**

**Your answer at: 16:47**

**Time Spent:**9 sec

Rs. 200

Correct Answer

Rs. 400

Rs. 300

Rs. 100

7

**Paul's age is three times of the sum of the ages of his two daughters. Five years from now, his age will be twice the sum of the ages of his two daughters. Find his present age.**

**Timeline**

**Your answer at: 18:23**

**Time Spent:**96 sec

55 years

50 years

45 years

Correct Answer

40 years

-

8

**3 boys can complete a work in 8 days. 1 boy can complete it in:**

**Timeline**

**Your answer at: 18:29**

**Time Spent:**6 sec

24 days

Correct Answer

40 days

64 days

50 days

9

**When the price of selling of an article is double, then its profit percentage triples. Determine the original profit percentage.**

**Timeline**

**Your answer at: 19:33**

**Time Spent:**64 sec

120%

100%

Correct Answer

135%

66.66%

10

**The cost of 15 packets of biscuits, each weighing 750 grams, is Rs. 300. What will be the approximate cost of 25 packet weights 1 kg?**

**(Note: It is known that cost of each packet depends on its weight)**

**Timeline**

**Your answer at: 19:43**

**Time Spent:**10 sec

Rs. 333

Rs. 700

Rs. 549

Rs. 667

Correct Answer

11

**A train travels first 800 kms at an average rate of 180 kmph and further travels the same distance at an average rate of 120 kmph. Determine the average speed of the train over the whole journey.**

**Timeline**

**Your answer at: 20:19**

**Time Spent:**36 sec

140 kmph

160 kmph

144 kmph

Correct Answer

164 kmph

12

**What is the percentage increase in the population of the country from 2014 to 2017 if it increases at a rate of 20% from 2014 to 2015 and reduces at a rate of 10% from 2015 to 2016 but again increases at a rate of 50% during 2016 to 2017?**

**Timeline**

**Your answer at: 21:17**

**Time Spent:**58 sec

62%

Correct Answer

46%

54%

58%

13

**If Rs. 1,360 have been divided among A, B, C such that A gets (2/3)rd of what B gets and B gets (1/4)th of what C gets, then B's share is:**

**Timeline**

**Your answer at: 22:56**

**Time Spent:**99 sec

Rs. 160

Rs. 320

Rs. 240

Correct Answer

Rs. 120

14

**When five times a number is added to twice the square of the same number, the result is 102. What is the number?**

**Timeline**

**Your answer at: 24:18**

**Time Spent:**82 sec

6

Correct Answer

8

5

7

15

**(3/23)th of 437 is:**

**Timeline**

**Your answer at: 24:50**

**Time Spent:**32 sec

76

57

Correct Answer

95

114

16

**Two trains are travelling towards each other at speeds 36 kmph and 54 kmph. In 3 hours they together will cover a total of:**

**Timeline**

**Your answer at: 27:08**

**Time Spent:**138 sec

75 km

Correct Answer

100 km

54 km

36 km

TEST-8

1

**A care travels first 300 kms at an average rate of 20 kmph and further travels the same distance at an average rate of 60 kmph. Determine the average speed of the car over the whole journey.**

**Timeline**

**Your answer at: 33:42**

**Time Spent:**32 sec

45 kmph

30 kmph

Correct Answer

40 kmph

35 kmph

**Detailed Solutions:**

Detailed solution: 1

2

**Solve for x.**

**log(x + (1/x)) + log 2 = log 5**

**Timeline**

**Your answer at: 33:42**

**Time Spent:**28 sec

1/2 or 2

Correct Answer

1

0

3 or 1/3

3

**3 boys can complete a work in 8 days. 1 boy can complete it in:**

**Timeline**

**Your answer at: 33:43**

**Time Spent:**6 sec

40 days

50 days

24 days

Correct Answer

64 days

4

**(5/23)th of 437 is:**

**Timeline**

**Your answer at: 33:44**

**Time Spent:**109 sec

105

75

95

Correct Answer

85

5

**A piece of work is to be finished in 10 days by "x" friends but five of them fell ill. If the rest of the group completed the task in 12 days, find the number of friends in the group.**

**Timeline**

**Your answer at: 18:29**

**Time Spent:**31 sec

30

Correct Answer

20

10

40

6

**Find the length of the bridge which a train 130 m long, travelling at 45 kmph, can cross in 30 seconds.**

**Timeline**

**Your answer at: 33:27**

**Time Spent:**165 sec

234 m

124 m

246 m

245 m

Correct Answer

7

**Rs. 1,000 is to be divided as incentives among three best employees in the firm such that Ekat receives twice as much as Ajay, who receives one-fifth as much as Rahul. How much money did Rahul receive?**

**Timeline**

**Your answer at: 31:12**

**Time Spent:**120 sec

Rs. 625

Correct Answer

Rs. 325

Rs. 780

Rs. 480

**Topic:**-

**Subtopic:**-

8

**Meera's expenditure and savings are in the ratio 3 : 2. Her income increases by 10%. Her expenditure increases by 12%. By how much percentage do her savings increase?**

**Timeline**

**Your answer at: 30:45**

**Time Spent:**220 sec

7%

Correct Answer

9%

8%

6%

9

**A man walks at a speed of 36 kmph. He covers a distance of 60 m in:**

**Timeline**

**Your answer at: 26:14**

**Time Spent:**41 sec

10 seconds

5 seconds

8 seconds

6 seconds

Correct Answer

**Status:**Correct

10

**What is the percentage increase in the population of the country from 2014 to 2017 if it increases at a rate of 20% from 2014 to 2015 and again 20% from 2015 to 2016 but reduces at a rate of 10% during 2016 to 2017?**

**Timeline**

**Your answer at: 25:33**

**Time Spent:**149 sec

22.40%

24.40%

26.20%

29.60%

Correct Answer

11

**Determine the average of the following data.**

**49, 89, 28, 66, 58**

**Timeline**

**Your answer at: 23:04**

**Time Spent:**12 sec

58

Correct Answer

56

57

59

12

**Find LCM of 8, 12, 15 and 21**

**Timeline**

**Your answer at: 22:52**

**Time Spent:**4 sec

465

423

840

Correct Answer

831

13

**Read the information given below and answer the question that follows.**

**f(x) = f(x - 1) + f(x + 1), "x" is a whole number**

**f(0) = 2**

**f(2) = 0**

**What is the value of f(f(2))?**

**Timeline**

**Your answer at: 22:48**

**Time Spent:**2 sec

2

Correct Answer

1

Not defined

0

14

**Mr. Raghuvender's salary was increased by 40% and then in another quarter it was again increased by 40%. The original salary gets increased by:**

**Timeline**

**Your answer at: 22:44**

**Time Spent:**40 sec

88%

40%

80%

96%

Correct Answer

15

**A father is 4 times his son's age. In 30 years son's age will be half of his father's age. How old are the father and son now (in years)?**

**Timeline**

**Your answer at: 22:46**

**Time Spent:**74 sec

48, 12

80, 20

60, 15

Correct Answer

40, 10

16

**A bag contains 20 discs numbered 1 to 20. A disc is drawn from the bag. The probability that the number on it is a multiple of 3 is:**

**Timeline**

**Your answer at: 20:52**

**Time Spent:**71 sec

1/5

2/5

5/10

3/10

2

When a young member is substituted for an old member in a group of 8 people their average age becomes same as it was 3 years ago. The incoming member is younger to the outgoing member by:

**Timeline**

**Your answer at: 44:45**

**Time Spent:** 115 sec

28 years

16 years

11 years

Not Sure

24 years

Correct Answer

3

Twenty women can do a work in sixteen days. Sixteen men can complete the same work in fifteen days. What is the ratio between the capacity of a man and a woman?

**Timeline**

**Your answer at: 10:43**

**Time Spent:** 76 sec

4:3

Correct Answer

None of the mentioned options

3:4

5:3

Not Sure

4

If the outcome is an odd number when a dice is rolled, then calculate the probability that it is a prime number.

**Timeline**

**Your answer at: 11:54**

**Time Spent:** 71 sec

Not Sure

1/2

2/3

Correct Answer

1/6

5/6

5

A man sold a horse at a loss of 7%. Had he been able to sell it at a gain of 9%, it would have fetched Rs. 64 more than it did. What was the cost price?

**Timeline**

**Your answer at: 44:56**

**Time Spent:** 67 sec

Rs. 400

Correct Answer

Rs. 500

Rs 600

Not Sure

Rs. 700

6

Zankrut covers three successive 2 km laps at speed of 20 kmph, 30 kmph, 40 kmph respectively. His average speed over this distance is:

**Timeline**

**Your answer at: 15:14**

**Time Spent:** 166 sec

27.7 kmph

Correct Answer

13.8 kmph

14.2 kmph

Not Sure

20 kmph

7

Assume that a pathway is being created through two circular figures represented by the equations below:

(x + 2)2 + (y - 6)2 = 16

(x + 2)2 + (y - 6)2 = 81

What is the area of the pathway, in sq. units, thus created?

**Timeline**

**Your answer at: 15:42**

**Time Spent:** 28 sec

Not Sure

30 PI

20 PI

65 PI

Correct Answer

40 PI

8

Determine the average of the following data

**35, 76, 90, 54, 15**

**Timeline**

**Your answer at: 16:14**

**Time Spent:** 32 sec

54

Correct Answer

53

Not Sure

56

55

9

A car travels first 300 kms at an average rate of 20 kmph and further travels the same distance at an average rate of 60 kmph. Determine the average speed of the car over the whole journey.

**Timeline**

**Your answer at: 16:33**

**Time Spent:** 19 sec

40 kmph

30 kmph

Correct Answer

45 kmph

35 kmph

Not Sure

10

Two trains are travelling towards each other at speed 36 kmph and 54 kmph, in 3 hours they together can cover:

**Timeline**

**Your answer at: 18:30**

**Time Spent:** 117 sec

100km

270km

Correct Answer

Not Sure

360km

54km

11

If a + (1/a) = 3, then what is the value of (a2 - 3a + 1)?

**Timeline**

**Your answer at: 18:49**

**Time Spent:** 19 sec

1

0

Correct Answer

Not Sure

2

5

12

What is the percentage increase in the population of the country from 2014 to 2017 if it increases at a rate of 20% from 2014 to 2015 and again 20% from 2015 to 2016 but reduces at a rate of 30% during 2016 to 2017?

**Timeline**

**Your answer at: 19:59**

**Time Spent:** 70 sec

Not Sure

0.7%

0.9%

0.6%

0.8%

Correct Answer

13

Two friends bought two bicycles whose prices were in the ratio 1:5. If they sold them at a loss of 10%, the difference of the money earned by them was Rs. 3600. What was the cost price of the costlier cycle?

**Timeline**

**Your answer at: 20:54**

**Time Spent:** 55 sec

Rs. 6500

Rs. 5000

Correct Answer

Rs. 6000

Not Sure

Rs. 5500

14

3 boys can complete a work in 6 days. 1 boy can complete it in:

**Timeline**

**Your answer at: 20:59**

**Time Spent:** 5 sec

18 days

Correct Answer

24 days

36 days

54 days

Not Sure

15

The daily wages of Ramu, Raju and Rajesh are in the ratio of 2 : 3 : 4. Iif their salaries are increased by 20%, 30% and 15% respectively then Raju's salary will be increased by Rs. 120. What was the salary of Ramu initially?

**Timeline**

**Your answer at: 21:08**

**Time Spent:** 9 sec

Not Sure

Rs. 200

Rs. 800/3

Correct Answer

Rs. 400/3

Rs. 400

-

16

Simplify:

**Log3(2) \* log4(3) \* log5(4) \* log6(5) \* ---- \* log20(19)**

**Timeline**

**Your answer at: 21:26**

**Time Spent:** 18 sec

Log20(2)

Correct Answer

Log2(20)

Not Sure

None of the mentioned options

Log20(2 + 3 + 4 + ---- + 19)