

Quantitative Aptitude Practice Paper - 1 (Self Assessment Test for Placement Drive - 2023 - 24)

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* Indicates required question

Quantitative Aptitude Practice Paper - 1 (Self Assessment Test for Placement Drive - 2023)

If the LCM and HCF of three numbers 48, 144 and p are 720 and 24 respectively, *
find the least value of p .

- ☒ 180
- ☐ 192
- ☐ 120
- ☐ 360



Salary of A is 40% more than B and the expenditure of B is 20% less than A. If A is able to save 30% of his salary, what percentage of salary is the expenditure of B? *

- ☐ 80.5 %
- ☐ 72.6%
- ☒ 78.4%
- ☐ 85.5%

The average of 13 consecutive natural number is x. If the seventh number is 22. Find x? *

- ☐ 14
- ☐ 28
- ☒ 22
- ☐ 20

A cylindrical can has a base of diameter 8cm and height 14cm. A cuboidal has a square base of side 8cm and the same height as the can. What is the difference between their volumes? *

- ☐ 196 cm cube
- ☐ 216cm cube
- ☐ 200cm cube
- ☒ 192cm cube



Pavan scored 44,31,50,90,80,70,11,80,56 and 10 runs in 10 innings of a cricket match respectively. Find the median score? *

- ☐ 55
- ☐ 50
- ☒ 53
- ☐ 44

The LCM and HCF of two numbers are 2016 and 6 respectively. If one of the numbers lies between 90 and 100 then the other numbers lie between what? *

- ☐ 100 and 110
- ☐ 90 and 100
- ☒ 120 and 130
- ☐ 110 and 120

A magician wants to hide his magical rod inside a cubical box whose total surface area is 3042 cm squared. What can be the maximum length of the rod? *

- ☐ 42 cm
- ☒ 39 cm
- ☐ 33 cm
- ☐ 237 cm



Simply and find the value. $0.0217 * 3.18 / 0.0053 * 15.5 * 0.7$ *

- ☒ 1.2
- ☐ 0.12
- ☐ 12
- ☐ 0.012

Simplify and find the value $.(216*216+216*194+194*194) / (216*216*216-194*194*194)$ *

- ☐ 1/33
- ☐ 2/11
- ☒ 1/22
- ☐ 1/11

If $a:b = 2:3$ and $b:c=5:7$, then find $(3a+6b+2c)/(2a+b+3c)$ *

- ☒ 243/98
- ☐ 81/39
- ☐ 81/49
- ☐ 162/49



A sequence consist of 9 terms arranged in descending order. The mean value of the sequence is 30. If 20 is added to each term , and then each term is divided by 5 to get the new mean as Z. Find the sum of Z and original mean? *

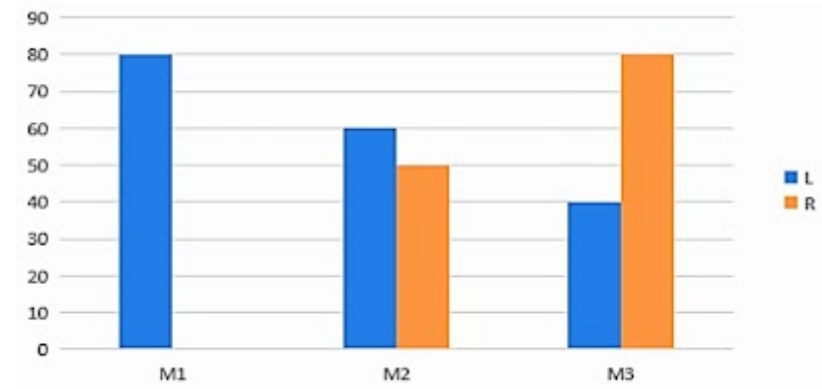
- ☒ 40
- ☐ 30
- ☐ 25
- ☐ 50

The diameter of a circle A is $(a+b)$ units. Find the radius of a semi-circle whose area is 300%more than that of circle A. *

- ☐ $\sqrt{2a + b}$
- ☐ $a + \sqrt{2b}$
- ☒ $\sqrt{2a} + \sqrt{2b}$
- ☐ $a + b$



A rural library created lending facilities for only 100 books and kept the lending desk open only on Mondays, which were the days on which it is also took stock of the books. The position of the number of the books lent(L) and returned(R) on the first three Mondays (M1,M2,M3) of operation in the lending desk is presented through a bar graph below. How many of these 100 books remained outside the library after stock checking on the third Monday? *



- ☐ 30
- ☒ 50
- ☐ 60
- ☐ 40



*

The following table shows the total number of votes polled and the percentage of invalid votes in an election in a village

Year	Total votes	Invalid votes
1980	6500	5%
1985	8000	7%
1990	9200	10%
1995	10400	12%

If the no. of total registered voters in 1995 is 12000, find the percentage of votes polled in the same year ?

- ☐ 88%
- ☐ 86%
- ☒ 86.67%
- ☐ 88.67%



*

Simplify: $\frac{16a^4b^8c^6}{64a^8b^3c^2}$

$$\frac{b^5}{(4ac)^4}$$

☐ Option 1

$$\frac{c^5}{4a^4b^4}$$

☐ Option 2

$$\frac{b^5c^4}{4a^4}$$

☒ Option 3

$$\frac{b^5}{4a^4c^4}$$

☐ Option 4



The following table gives the percentage distribution of the population of four states A, B, C and D based on the poverty line and on gender. If state A's female population of the below poverty line is 2,00,000, what is the total population of state A? *

State	% of population below poverty line	Population of Male and Female	
		Below Poverty line M : F	Above Poverty line M : F
A	40	3 : 4	4 : 5
B	35	5 : 7	3 : 5
C	28	1 : 2	3 : 4
D	40	4 : 7	4 : 3

- ☐ 800000
- ☐ 925000
- ☐ 875000
- ☐ 920000

Joy scored 90 marks in his mid-term exam and 105 in his end-term exam. If the maximum marks in both the examinations are 150, then find the increase in his marks in percentage points. *

- ☐ 16.66%
- ☒ 10%
- ☐ 15%
- ☐ 14.28%



If $4x^2 + 16y^2 - 12x - 40y + 34 = 0$, then find the value of $(x+y)/(x-y)$ *

- ☒ 9
- ☐ 6
- ☐ 11
- ☐ 5

When a 15% discount is given on an article, then its selling price is Rs.2975. What *
will be its selling price if two successive discounts of 10% and 5% are given?

- ☐ Rs. 3005.5
- ☐ Rs. 3028.4
- ☒ Rs 2992.5
- ☐ Rs. 3175.6

C,D and E are three integers satisfying $C=3D$ and $2D=5E$. Which of the following *
pairs contain the number that can be integer?

- ☐ $C/4, DE/180$
- ☐ $C/5, 2D/5$
- ☐ $C/6, 4E/6$
- ☒ $2C/15, D/6$



The following table shows the number of runs scored and the number of balls faced by batswomen in a series. Study the table carefully and answer the given question. In the last match of the series, Shagufta scored 54 runs in 36 balls. What was Shagufta's strike rate in the series before the last match? Note: Strike rate = (Runs scored/ Balls faced) x 100 *

Batswomen	Run Scored	Balls Faced
Smrita	278	328
Shagufta	240	182
Deepali	175	190
Priya	110	145
Seerat	220	310

- ☐ 112.5
- ☐ 127.4
- ☐ 134.8
- ☐ None of these

*

Following is the data on people who used the online ticket booking facility?

In January, 6500 people booked their tickets

In February, the number increased by 15%

In March the number reduced by 10%

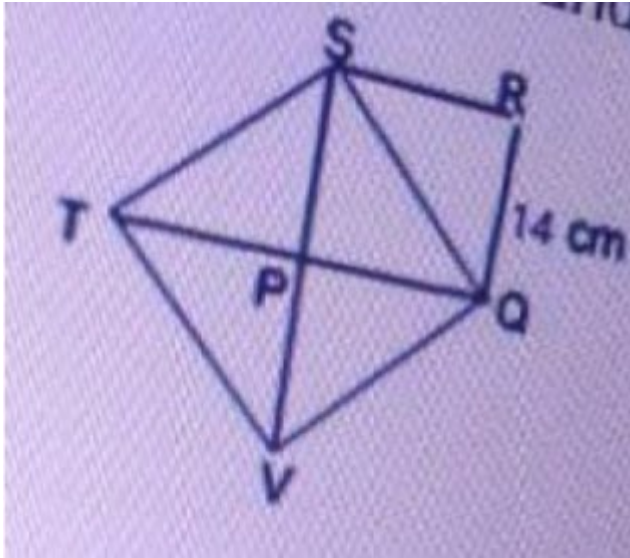
In April, the number further reduced by 20%

How many people booked their tickets in April?

- ☐ 5200
- ☐ 5525
- ☐ 5144
- ☒ 5382



In the following figure, PQRS is a square of side 14 cm. Find the area of QSTV if P * is the midpoint of QT and SV?



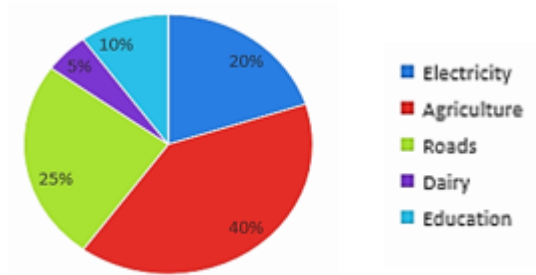
- ☐ 196 sq. cm
- ☐ 96 [sq.cm](#)
- ☐ 98 sq. cm
- ☒ 392 sq. cm

In an entrance exam, 450 girls and 600 boys appeared. If 20% of the girls passed * and 25% of the boys failed, find the total number of passed students?

- ☐ 420
- ☒ 540
- ☐ 630
- ☐ 810



Consider the following pie chart of 2019-2020 Punjab State Budget. If a total expenditure of Rs. 180 millions was increased, what is the difference between the budget allocated for agriculture and Roads in millions? *



- ☐ 36
- ☐ 72
- ☐ 45
- ☐ 27

*

Find the value of $\sqrt{3 + \sqrt{5}} + \sqrt{3 - \sqrt{5}}$

- ☒ sqrt 5/2
- ☐ 2 sqrt 5
- ☐ sqrt 10
- ☐ 1

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