



MATHS

BOOKS - GURUKUL BOOKS & PACKAGING MATHS (HINGLISH)

ALGEBRA MARCH 2019

Solve The Following Questions Any Four

1. Find the medium of :

66, 98, 54, 92, 87, 63, 72,



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2. Multiply and write the answer in the simplest form

$$5\sqrt{7} \times 2\sqrt{7}$$



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3. IF $3x + 5Y = 9$ and $5x + 3y = 7$ then find the value of $x + y$



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4. Write the ratio of second quantity of first quantity in the reduced form: 5 dozen pens, 120 pens.



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5. Write the following polynomial in coefficient form :

$$2x^3 + x^2 - 3x + 4$$



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6. for computation of income tax which is the assesment year of financial year 01-04-2016 to 31-03-2017?



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Solve The Following Questions Any Two

1. Find the value of the polynomical $2x^3 + 2x$,
when $x=-1$



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2.

IF

$$A = \{11, 21, 31, 41\}, B = \{12, 22, 31, 32\}.$$

Then find

(a) $A \cup B$

(b) $A \cap B$



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3. Sangeeta 's monthly income is Rs. 25,000 she spent 90 % of her income and donated 3% for

socially useful causes How much money did she save



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4. First term and common difference of an A.P are 12 and 4 respectively if $t_n = 96$ find n.



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5. If $\begin{vmatrix} 4 & 5 \\ m & 3 \end{vmatrix} = 22$ then find the value of m .



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6. Solve the following quadratic equation

$$x^2 + 8x + 15 = 0$$



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7. Find the 9th term of the A. $P7, 13, 19, 25$



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8. Obtain a quadratic equation whose roots are -3 and -7



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9. Two numbers differ by 3. The sum of the greater number and twice the smaller number is 15. Find the smaller number.



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Choose The Correct Alternative

1. In the A.P $2, -2, -6, -10, \dots$ Common difference (d)

is :

A. -4

B. 2

C. -2

D. 4

Answer:



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2. For the quadratic equation

$x^2 + 10x - 7 = 0$, the value of a, b, c are :

A. $a = -1, b = 10, c = 7$

B. $a = 1, b = -10, c = -7$

C. $a = 1, b = 10, c = -7$

D. $a = 1, b = 10, c = 7$

Answer:



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3. The tax levied by the Central government for trading within state is

A. IGST

B. CGST

C. SGST

D. UTGST

Answer:



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4. If a die is rolled , what is the probability that number appearing on upper face is less than 2 ?

A. $\frac{1}{3}$

B. $\frac{1}{2}$

C. 1

D. $\frac{1}{6}$

Answer:



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Complete The Following Activities Any Two

1. Smita invested Rupees 12,000 to purchase shares of FV Rupees 10 at a premium of Rupees
2. Find the number of shares she purchased.

Completed the given activity to get the answer



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2. Two coins are tossed simultaneously
.Complete the following activity of writing the sample space (S) and expected outcomes of

the events .

a. Event A : to get at least one head

b. Event B : to get no head .

$$\therefore S = \{ \boxed{}, HT, TH, \boxed{} \}$$

a. Event A : at least getting one head.

$$\therefore A = \{ HH, \boxed{}, TH \}.$$

b. Event B : to get no head.

$$B = \{ \boxed{} \}.$$



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Solve The Following Questions Any Three

1. Amit saves certain amount every month in a specific way .In the first month he saves Rs.

200 . In the second month Rs. 250 In the third month Rs. 300 and so no .How much will be his total savings in 17 month s ?



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2. A two digit number is to be formed using the digits 0,1,2,3 Repetition of the digits is allowed .Find the prochased that a number so formed is a prime number



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3. Smt .Malhotra purchased solar pens for the taxable value of Rs. 85,000 she sold them for Rs. 90,000 the rate of GST is 5% Find the ITC of smt Malhotta , what is the amount of GST payable by her ?



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4. Solve the following simultaneous equations graphically

$$x + y = 0, 2x - y = 9$$



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Solve The Following Questions Any One

1. The following frequency distribution table shows marks obtained by 180 students in Mathematics examination

Marks	Number of Students
0 – 10	25
10 – 20	x
20 – 30	30
30 – 40	$2x$
40 – 50	65

Find the value of x .



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2. Two taps together can fill a tank completely in $3\frac{1}{13}$ minutes. The smaller tap takes 3 minutes more than the bigger tap to fill the tank. How much time does each tap take to fill the tank completely



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3. The Co-ordinations of the point of intersection of lines

$$ax + by = 9 \text{ and } bx + ay = 5 \text{ is } (3, -1)$$

find the values of a and b.



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4. The following frequency distribution table shows the distances travelled by some rickaws in a day .Observe the table and answer the following :

Class (Daily distance travelled in km)	Continous Classes	Frequency (Number of rickshaws)	Cumulative Frequency less than type
60 – 64	59.5 – 64.5	10	10
65 – 69	64.5 – 69.5	34	10 + 34 = 44
70 – 74	69.5 – 74.5	58	44 + 58 = 102
75 – 79	74.5 – 79.5	82	102 + 82 = 184
80 – 84	79.5 – 84.5	10	184 + 10 = 194
85 – 89	84.5 – 89.5	6	194 + 6 = 200

a. Which is the modal class ? Why ?

b. Which is the medium class and why ?

c. Write the cumulative frequency (C.F) of the preceding the medium class .

d. what is the class interval (h) calculate medium ?



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