

Sadhana Education Society's L. S. Raheja College of Arts & Commerce

Department of Mathematics, Statistics And Computer

WOW! MATHS CONNECTING MATHS TO EVERYDAY LIFE

Objectives

To fill the gaps in the Mathematical learning practices by:

- Concept Visualization
- Maths-Lab Activity
- Project Work
- Connecting knowledge to life outside college
- Examining logical thinking abilities
- Enriching students with a variety of mathematical resources

An innovative learning course ideal for First Year Students of B.Com.

Registration Link:

https://forms.gle/7R9cR58d36BR1mbB6

Please enroll yourselves through before 31st december, 2021

 For queries, please contact:
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129.

Dr. Debajit Sarkar (Principal)

Prof Goray

14

Can you Solve this?



www.FunWithPuzzles.com

AT=4 CAT=6 CROW=8 BRAIN=10 Then

IF

TWISTER = ?

There are 4 figures in the problem area. What will be the 5th figure? Select from the Answer figure area.



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What number will come in the place of the question mark?



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Wow maths #1

You all have to become Arjun!!!! Focus is not something you have but You Focus on your Goal

Memory is not something you have but You memorize the things

Similarly Ability in Maths is not something you have but You have to develop it consciously.







Time Average Centuries Half centuries catches



If you want to calculate how much paint, wallpaper, flooring, carpeting or tile you have to buy for your project you must know the area of the wall or floor.





MATHEMATICS IS ALL AROUND US.

Wow math<mark>s #1</mark>

of Goray

Develop mathematical ability



Numbers

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NACE

Give some examples of numbers



Temperature is -10

Dushanbe

Taiikist

Siachen

UTTARAKHAN

UTTAR

.

JAMMU AND KASHMIR

Chandigarh

HABYANA

New Delhi



Numbers







Numbers







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dr and cr entries





Train stations is like a number line





Neeta started from Santacruz, travelled +2 stations and then travelled -6 stations. Where will she be?



Numbers

Following are some fun web sites to understand negative numbers

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https://www.youtube.com/watch?v=DBSviXhkubg

https://www.youtube.com/watch?v=DBSviXhkubg

https://www.youtube.com/watch?v=DBSviXh kubg



You are given 5 cards having plus(+) sign and another 5 cards having minus (-) sign.

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- For the given sum, you have to pair them and find the answer.
- ✤ +3-5=?

You are left with 2 minus sign cards, so your answer will be -2.

Addition subtraction Rules



Give Sign of the greater number to the answer

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Addition subtraction Rules

This shows that if both the numbers are positive you add them.

Now math

Prof Goray

This shows that if both the numbers are negative you add them.

If One positive and other negative you subtract them.

Always give Sign of the greater number to the answer



1) +75 + 25 =

Multiplication Sign Rules

For Multiplication action will be always multiply only whatever is the sign of both the numbers.

Number1 Number2 Sign



For eg. +12 x (+3) = +36 -12 x (-3) = +36 +12 x (-3) = -36 -12 x (+3) = -36

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- 2)-5 x 6 =
- 3) 5 x -6 =
- 4) -5 x -6 =

Addition of simultaneous Equations

Q1) solve the following simultaneous equations

2x + 3y - 66 = 0 and 2x + y - 38 = 0



3x - 4y + 25 = 0 and 8x + 4y + 19 = 0



Thank you



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What will come in the empty red square? Select your answer from the option given....



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What will come in the empty square? Select your answer from the option given....



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What will come in the last line?





Revision Numbers

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Give Sign of the greater number to the answer

Revision Multiplication Sign Rules

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For Multiplication action will be always multiply only whatever is the sign of both the numbers.

Number1 Number2 Sign



FRACTION

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1 full



 $\frac{1}{6}$ gives us 1 piece from 6 pieces

 $\frac{1}{15}$ gives us 1 piece from 15 pieces

This
$$\frac{1}{6}$$
, $\frac{1}{15}$ Are called fractions

FRACTION



If I take 2 pieces of chocolate from this bar how will you Write that in terms of fraction?

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2 15



Look carefully at each fraction. Does it tell you any story?

Yes, every fraction simplifies to 1/2







This and the earlier slide shows that more the number of parts, lesser is the value of the part. In Maths we say, more the denominator lesser the fraction.





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ADDING FRACTIONS





HOW MANY PIZA PIECES I ATE?



= 3/4



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ADDING FRACTIONS Criss cross method



Find out $\frac{1}{4} + \frac{3}{7} =$

ADDING FRACTIONS

WOW Maths#3 Prof Goray

1) Nina walked $\frac{2}{3}$ rd of km to college from her house and $\frac{7}{8}$ th of km on the college sports ground. What is the total distance she walked?

Date / / Date / /
25,27
34 8
e integold quincip lalogetal
0×2,3×7
= 278 + 577
3×8
= 16+2)
24
Ette Wow
= 37
24 5 NORDODE 20
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WOW Maths#3

ADDING/SUBTRACTING FRACTIONS

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2) Abhay is allowed to play the video game for $4/5^{th}$ hours every day. Today he has played for $2/3^{rd}$ hours. How much more can he play?

	(a)
$\frac{4}{5} - \frac{2}{3}$	x - of footon
= 4×3 - 5×2 15	- crade matriplication
= 12-10	
- <u>2</u> hours 15	
= 2 × 60 minu 15 × 60 minu	tes
= 8 minutes	

Multiplication of FRACTIONS

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Solve:

1) $\frac{2}{3} \times \frac{9}{20}$ 2) $\frac{1}{3^{rd}}$ of $\frac{7}{4}$ 3) $\frac{27 \div \frac{1}{3}}{\frac{4}{2} + (3 + 2 \times 5 - 1)}$



FRACTIONS

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5) You are punished by your college principle. So you have to clean 3/4th part Of the college garden. Your friend agreed to help you and cleans 1/3rd part of your work. How much part is left for you to clean?

2	- L ha cleaned
2/	Part of the garden to be
	= 3
	4
	01
	Friend agrees to clean = 1 of your work
	inord when to create 3
	C
	. mend agrees to clean - 1 of 3
	5]
	<u> </u>
	$=\pm x^{3}$
	3.9
1	1
1	
	4
1	. Remaining part you have to clean
1	
	= 3 - 1
	44
1	
-	= 2
	4
	soomas t =
	2 24285-11
	The second secon

Mixed FRACTIONS

6)You are in charge of college annual day. Budget sanctioned is Rs 50,000. You have spent Rs 15,000 on music system, 1/3rd of music system on snacks, 2½ of music system on trophies. Another Rs 10,000 on T-shirts to volunteers. Are you well in budget or overshoot it?

Budget = R1.50,000
Spent on music - R.15000
spont on Shacte - 1rd of munic
= 1 of 15000
= R. 5000
Spent on traphies = 21 of munic
$= \frac{5}{2} \frac{3}{4} \frac{15000}{1000}$
= <u>-</u> × 15000
= Rr. 37,500
Spent on T-shit = Ro- 10,000
- Total expenses = music + snacks + trophies + T-shirts
= 15000 + 5000 + 37,500 + 10,000
= 67,500
Santing was RA, 50,000
- You overshooted the budget by 67,500 - 50,000
-617,500



Thank you