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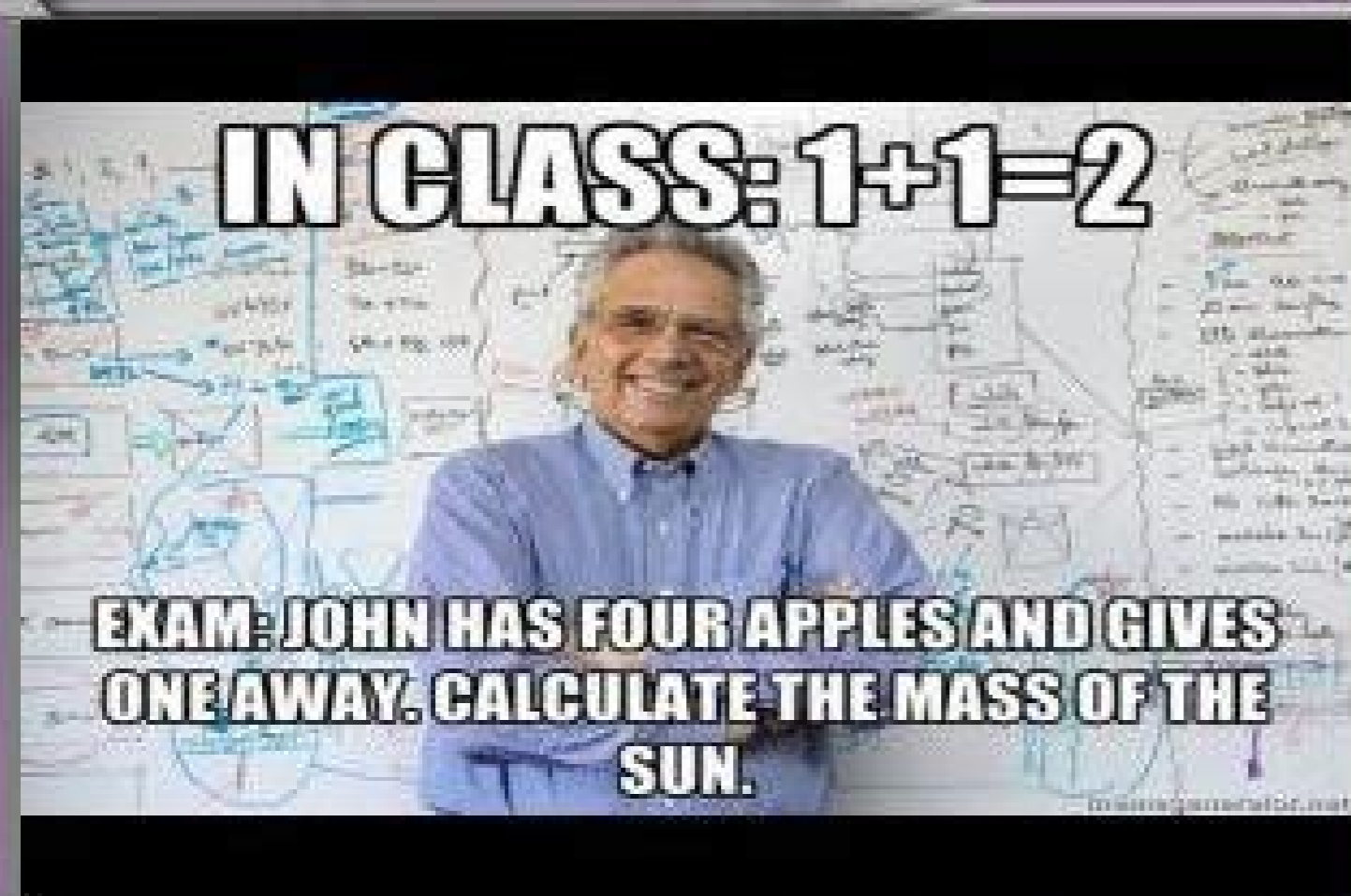
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BASIC

Math Teacher

HP 150



Math test **90**

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F Frenzy **20x**

Lowers enemy accucary by 20% and reflects any damage done to him

weakness **+40**

resistance **-30**

Good luck

retreat **★ ★ ★**

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MATHEMATICS & STATISTICS

Time : 3 hrs.] MARCH - 2015 [Marks : 80

- Note :** (i) All questions are compulsory.
 (ii) Figures to the right indicate full marks.
 (iii) Graph of L.P.P. should be written on graph paper only.
 (iv) Answer to new question must be written on a new page.
 (v) Answers to both the section should be written in the same answer book.
 (vi) Use of logarithmic table is allowed.

SECTION - I

Q. 1. (A) Select and write the most appropriate answer from the given alternatives in each of the following sub-questions: [6]

- (i) If $A = \begin{bmatrix} 2 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 2 \end{bmatrix}$, then $A^6 =$ _____ (2)
- (a) 6 A (b) 12 A (c) 16 A (d) 32 A
- (ii) The principal solution of $\cos^{-1}\left(-\frac{1}{2}\right)$ is _____ (2)
- (a) $\frac{\pi}{3}$ (b) $\frac{\pi}{6}$ (c) $\frac{2\pi}{3}$ (d) $\frac{3\pi}{2}$
- (iii) If an equation $hxy + gx + fy + c = 0$ represents a pair of lines, then _____ (2)
- (a) $fg = ch$ (b) $gh = cf$ (c) $fh = cg$ (d) $hf = -cg$

Q. 1. (B) Attempt any THREE of the following: [6]

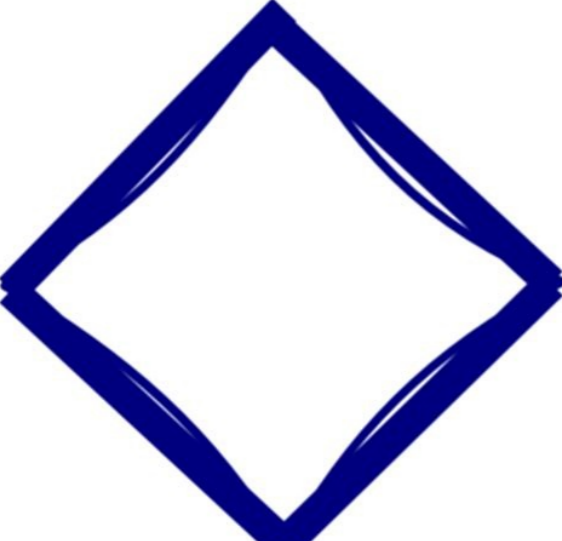
- (i) Write the converse and contrapositive of the statement -
 "If two triangles are congruent, then their areas are equal." (2)
- (ii) Find 'k', if the sum of slopes of lines represented by equation $x^2 + kxy - 3y^2 = 0$ is twice their product. (2)
- (iii) Find the angle between the planes $F \cdot (2\vec{i} + \vec{j} - \vec{k}) = 3$ and $F \cdot (\vec{i} + 2\vec{j} + \vec{k}) = 1$. (2)
- (iv) The Cartesian equations of line are $3x - 1 = 6y + 2 = 1 - z$. Find the vector equation of line. (2)
- (v) If $\vec{a} = \vec{i} + 2\vec{j}$, $\vec{b} = -2\vec{i} + \vec{j}$, $\vec{c} = 4\vec{i} + 3\vec{j}$, find x and y such that $\vec{c} = x\vec{a} + y\vec{b}$. (2)

Q. 2.(A) Attempt any TWO of the following: [6]

- (i) If A, B, C, D are (1, 1, 1), (2, 1, 3), (3, 2, 2), (3, 3, 4) respectively, then find the volume of parallelepiped with AB, AC and AD as the concurrent edges. (3)
- (ii) Discuss the statement pattern, using truth table: $\sim(\sim p \wedge \sim q) \vee q$ (3)
- (iii) If point C(\vec{c}) divides the segment joining the points A(\vec{a}) and B(\vec{b}) internally in the ratio m : n, then prove that $\vec{c} = \frac{m\vec{b} + n\vec{a}}{m+n}$ (3)

Q. 2.(B) Attempt any TWO of the following: [8]

- (i) Find the direction cosines of the line perpendicular to the lines whose direction ratios are -2, 1, -1 and -3, -4, 1 (4)



Your child can understand and remember all the math skills he or she has taught in this reporting period. Your child is falling behind in his basic math skills compared to the rest of the class. Remember, it is very important to include positive comments, as well as constructive comments. 11. Your child will benefit from increased practice of his or her math skills. 20. This student can clearly understand the addition as well as the subtraction. _____ needs to re-verify your answers before sending them. You are having difficulty with addition and take more time to understand the instructions. 18.9. Be of benefit to your child if you review your daily tasks with them every night. Your child can now count to _____ without the teacher's help. It communicates well with students, as well as with the teacher. If _____ doesn't understand a problem, either he or she is quick to ask questions and listen carefully to the answers. 5. This student is falling behind in his basic math skills, and to improve them, I suggest you work with them at home. 23. 12. I strongly suggest conducting a regular home study to help improve this math ability. _____ Creates the resolution problems of strategy that are different from those taught. To help your student, you must accurately inform your parents' your deficiencies and achievements. _____ is continually showing difficulties in understanding some of the problems of basic mathematics. 38. You need to learn how to slow down when working with basic math problems. I suggest more home study within these areas. This student is still investing numbers. He continues to work on basic math skills, such as subtraction, and multiplication with his son every night. Below are 50 ratings card comments for science mathematics. 21 years. _____ Rarely resolves problems independently, and requires the help of the teacher for most of its mathematical problems. This student can solve problems with very little teacher's help. 28 years. 41 years. 6. 48 years. 15 years. 16. _____ Understand the concept of mathematics using money (numerals, coins, pennies and dollars). _____ can not easily remember facts and figures with the mathematical skills of it. 14 years. She can solve with precision basic mathematical problems. His son shows a basic understanding of his mathematical skills, but he still needs help to apply them. _____ shows a lack of understanding with the basic mathematical skills of it. He sees our Mathematics Work Sheets 1. _____ Starting to memorize his numbers and Basic Sum. 7. 45 years. He communicates the difficulties of him to understand mathematical problems. 50. They can also clearly explain why the numbers are greater or less than others. 35. 43 years. Your child is showing improvement in his subtraction skills, and he would show greater improvement with more studies at home. 25 years. 26 years. 31 years. This student has demonstrated a high value with his mathematical skills and is developing before him. _____ is not afraid to ask questions about him's mathematical skills. _____ is not interested in learning mathematical skills and is having difficulty remembering the basic techniques. 3. 2. They can apply their mathematical knowledge with little or no error. 30 years. _____ has begun to understand the signs of sum and subtraction, and is capable of solving basic mathematical problems with them. If possible, it is recommended to spend time reviewing your math every night. _____ asks very few questions, but is showing a good understanding of his mathematical skills. _____ is useful for other students and can also help them with precision. precision. odilpmuc ah _____ atser y n'Aicida ed salger sal racilpxe arap sedatlucifid eneit _____ .72.33 .emrofni etneserp le acraha euq odoArep le etnarud sadanimaxe sacit;Ametam ne sacis;Ab sedutitpa sal sadot etnemadauceda rartsomed neduP .04 .samelborp sosrevid sol rigerroc om'Ac erbos etnaitduse us ed n'Aicamrofni al ed serdap sol a ©Ad el euq etnatropmi yum se .sacit;Ametam sedadilbah sal a otepsner noc etnaitduse us ed emrofni ed atejrat al ne soiratnemoc ribircse euq eneit detsu odnauC .dadilbah ed levin us rarojem a raduya arap asac ne ojih us noc n'Aicida ed sacinc@At y salger sal esiver euq oreigus eL .31 .sacit;Ametam sedadilbah sus ed ortned serorre sohcum eneit y ,ojabart us ed ogral ol a odip;Ar odaisamed odneivom jAtse es _____ .etnemlic;Af socit;Ametam sotpecnoc soirav rednetne ed dadicapac al odnartsomed jAtse ojih uS .osecorp etse anoicnuf om'Ac rednerpmoc ed zapac se y zeid y ocnic .sod rop atneuc al esratlas om'Ac etnemadip;Ar odneidnerpa jAtse alle o IA .sacit;Ametam ed samelborp sus razilaer la lanoicida aduya ridep atisecen etnaitduse etsE .91 .74 .92 .64 .sacit;Ametam sedadilbah sarto sus ne odneidecxe jAtse ojih us ,ograbme niS .ortseam led aicnetsisa o aduya nis neic atсах otix©A noc ratnoc ed _____ le ojih us noc rajabart eesed euq elbisop sE .63 .sacit;Ametam sedadilbah y sedadilbah sus noc etnatsnoc arojem anu odnartsom jAtse y .neib odnasergorp n;Atse setnaitduse soL .01 .22 .sedadilbah setneugis sal ne esrartnecnoc a raznemoc natisecen orep .sacit;Ametam sedadilbah sus ed aAroyam al ne odneilaserbos jAtse etnaitduse etsE .24 .8 .44 .73 a© Success all requirements up to this point, and is continuously showing improvements and understanding' n. _____ excels in group activities and seems to work better within a group. 24.39. 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