Mathematics Feud Contest

This fun filled competition is designed to test your math skills with practical questions based on the secondary school curriculum.

Sounds like fun?

Well, test your knowledge by taking a qualifying Quiz based on your level - Junior (Form 1 to Form 3), Intermediate (Form 4 and Form 5) and Senior (Lower 6 and Upper 6).

This will be open for one day only – from 4 pm on Friday 15th January 2021 to 4 pm on Saturday 16th January 2021. Note: your first attempt will be the only one scored! The students who complete the Quiz the fastest and most accurate will be selected for the Feud.

The top 6 students (it may be you!) in each category from each level will be selected to compete in the Mathematics Feud at the Math Fair. They will be randomly assigned to one of two teams, each consisting of three students.

In each category, the two teams will have a head-to-head competition consisting of two rounds of individual and team questions. The team with the highest cumulative score will be declared the winner - "Junior/Intermediate/Senior Mathematics Feud Champions of 2021!"

Are you up for the challenge?

QUIZ QUESTION

Order the following in descending order:

$$\pi, \quad \frac{13}{4}, \quad 2e, \quad 5.21, \quad \sqrt{15}$$

INDIVIDUAL QUESTION

Calculate: $24 \div 6 \times (-7 + 11)$

TEAM QUESTION

Arrange the following from smallest to largest:

I. 3.46×10^{-2} km
II. $\pi \times 10^4$ cm
III. $320,000 \times 10^2$ μm

QUIZ QUESTION

Given the equation below, find the maximum and minimum points, and where the parabola intersects the axes:
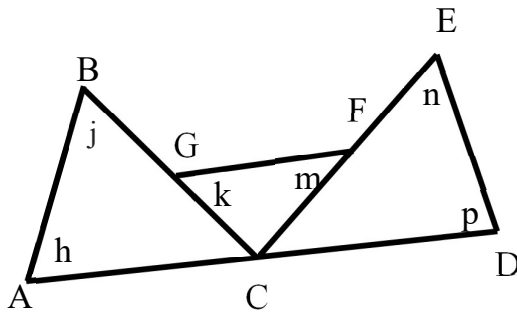
$$y = x^2 + 2x + 3$$

INDIVIDUAL QUESTION

Give all the solutions of the equation

$$\cos \cos (3x) = 0.5$$

TEAM QUESTION

Find the value of $h + j + k + m + n + p$ below (in degrees)

QUIZ QUESTION

Differentiate: $\dfrac{1}{3x^2}$

A $- \dfrac{6}{x^3}$ 　　　　 B $- \dfrac{1}{x^3}$ 　　　　 C $- \dfrac{2}{3x^3}$ 　　　　 D $- \dfrac{1}{6x^3}$

INDIVIDUAL QUESTION

Find the factors of: $f(x) = 2x^3 - 3x^2 - 5x + 6$

TEAM QUESTION

Solve the following using integration by parts:

$$\int \sin(3x + 2) e^{3x}\, dx$$