**MPIKA BOYS SECONDARY SCHOOL**

**INTER HOUSE JUNIOR MATHEMATICS QUIZ**

**1ST FEBRUARY, 2014.**

**INSTRUCTIONS**

1. Two attempts only.
2. 1 minute to answer a question.
3. 2 points for each correct answer.
4. 0 points for a wrong answer.
5. Convert $\frac{5}{3} $into a mixed number.

$$1\frac{2}{3} Answer$$

1. Express 5$\frac{2}{3}$ as an improper fraction.

$$\frac{17}{3} Answer$$

1. Express 0.125 as a fraction in its lowest term.

$$\frac{1}{8} Answer$$

1. Evaluate the following $\frac{3}{4} + \frac{5}{2}$ + $\frac{1}{4}$

$$3\frac{1}{2} or 3.5 Answer$$

1. Find $\frac{2}{3}$ × $\frac{3}{4}$ × $\frac{4}{5}$

$$\frac{2}{5} Answer$$

1. What is 3$\frac{4}{5}$ × $\frac{1}{2}$ ?

$$1\frac{9}{10} or 1.9 Answer$$

1. What is $\frac{8}{9}$ ÷ 16?

$$\frac{1}{18} or 0.06 Answer$$

1. Find 1.8 ÷ 0.09

**20 Answer**

1. Mushikanyimbo does $\frac{2}{5}$ of the sweeping in the hostel and Nyenga does $ \frac{1}{4} $of the sweeping, how much sweeping remains to be done?

$$\frac{7}{20} or 0.35 Answer$$

1. The price of a bottle of soft drink is K3. Find the total amount Kuichaila spends if he buys 5 bottles.

**K15 Answer**

1. Convert $\frac{3}{2}$ into a percentage.

**150% Answer**

1. Express 0. 52 as a percentage.

**52% Answer**

1. Express 45% as a common fraction in its lowest term.

$$\frac{9}{20} Answer$$

1. The area of a square is 81 cm2. What is its perimeter?

**36cm Answer**

1. What is the number of significant figures in 0.8704?

**4 Answer**

1. 40 boys can do a piece of work in 5 days. In how many days can 8 boys do the same piece of work?

**25 days Answer**

1. Mr. Kalunga bought a computer at K3 000 and later sold it at a profit of 15%. Find the selling price of the computer.

**K 3 450 Answer**

1. Divide 4.8 by 0.12

**40 Answer**

1. Express 0.00653 in standard form.

$$6.53×10^{-3} Answer$$

1. Find the next two terms in the sequence, 81, 72, 63, 54,…

**45 and 36 Answer**

1. Given that $1= K4.75. How many dollars can be bought from K76 000?

**160 Answer**

1. Find the lowest common multiple of 6, 12 and 18.

**36 Answer**

1. What is 12% as a fraction in its lowest term?

$$\frac{1}{8} Answer$$

1. If A = {1, 2, 3}, how many subsets does the set A have?

**8 Answer**

1. What is the value of $x if \frac{3x}{5}=-3?$

$$x=-5 Answer$$

1. Solve the simultaneous equations

$$x+y=2$$

$$x-y=0$$

$$x=1 and y=1 Answers$$

1. Find the HCF of 18, 24 and 36.

**6 Answer**

1. Find the value of $a if 4a+3\leq 5a+3$

$$a\geq 0 Answer$$

1. What is the compliment of $89°? $

$$1° Answer$$

1. Express 8 as a product of its prime factors.

$$2×2×2 or 2^{3} Answer$$

1. Given that a = -5, b = 2 and c = 0. Find the value of a2 – b2 + c2

**21 Answer**

1. Change $31\_{five}$ to a number in base ten.

**16 Answer**

1. Find the ratio of 75 : 100 in its simplest form.

$$3:4 Answer$$

1. What is 30% of 60?

**18 Answer**

1. Solve the equation $3x -4 =11$

$$x=5 Answer$$

1. Given that $y =2x +3, find y if x =4$

$$y=11 Answer$$

1. What name is given to a six-sided polygon?

**Hexagon Answer**

1. Evaluate $÷$ 1 + 

$$1\frac{1}{3} Answer$$

1. During a mathematics test, Omega got 16 out of 20. Calculate his percentage mark.

$$80\% Answer$$

1. Factorise $x^{2}-1$

$$\left(x-1\right)\left(x+1\right) Answer$$

***THE END!!!***