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**MINISTRY OF EDUCATION, SCIENCE, VOCATIONAL TRAINING AND EARLY EDUCATION**

**MUCHINGA REGION**

**MPIKA DISTRICT ZONE JETS JUNIOR QUIZ**

 **MATHEMATICS JUNIOR QUIZ**

**Thursday 26 JUNE 2014**

**RULES**

* **Two attempts only**
* **1 minute to answer the question**
* **2 points for each correct answer**
* **0 points for a wrong answer**

**QUESTIONS**

1. Give the next two terms in the following sequence

$\sqrt{121}$, 10, $\sqrt{81}$, 8, $\sqrt{49}$, \_\_\_, \_\_\_ .

**Answer: 6,** $\sqrt{25}$

1. A 6% increase is effected on the price of bread in a Chumabantu Bakery. If the original price was K5 per loaf, find the new rice.

**Answer: K5.30n**

1. If a circle has a radius of 7cm, what fraction of the circumference is the radius of this circle? ($π=\frac{22}{7}$).

**Answer:** $\frac{7}{44}$

1. If $124+144=323,$ then the calculation is done in base…

**Answer: Base 5**

1. Find the value of $\left(-2\right)^{3}$.

**Answer:** $-8$

1. Small squares of side 16cm are to be laid on a floor measuring 800cm by 400cm. The number of these small squares required to cover the floor is ...

**Answer: 1, 250 tiles**

1. It takes 6 days for 4 boys to do the punishment. How many boys would be required to do the same punishment at the same rate in 2 days?

**Answer: 12 boys**

1. On a certain day Bureau De Change revealed that one Zimbabwean dollar was equivalent to 15 Zambian Kwacha (Z$1=K15), how many Zimbabwean dollars were there in K750 Zambian Kwacha?

**Answer: 50 Zimbabwean dollars (Z$50)**

1. At Chinsali Girls Secondary School, the Chemistry lesson on Monday started very late. Thus, the lesson lasted only for 40 minutes. If the lesson ended at 09 35 hours, what time did the lesson start?

**Answer: 08 55 hours**

1. The number that is opposite to $+9$ on the number line is ...

**Answer: -9**

1. How many lines of symmetry does an equilateral triangle have?

**Answer: 3**

1. Find the value of 3.6 $÷$ 0.09

**Answer: 40**

1. Express $1 ×10^{-3}$ as a decimal

**Answer: 0.001**

1. The point $(5, z)$ is one of the coordinates where the line $3x + 2y = 9$ passes, hence or otherwise, find the value of $z?$

**Answer:** $z = -3$

1. In a right-angled triangle, what is the magnitude of the angle which angle is opposite to the hypotenuse?

**Answer: 90ᵒ**

1. Set U = {98, 100}. How many subsets are in set U?

**Answer: 4 subsets**

1. Evaluate $3+\left(0.2\right)^{2}$

**Answer:** $3.04$

1. If $12.5\%,$ is equivalent to $12\frac{1}{2}\%$ then the fraction of $12\frac{1}{2}\%$ in its simplest form is …

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

1. If $p=2q+1$, find $q$ when $p=1$.

**Answer: 0**

1. How many sides does a hexagon polygon have?

**Answer: Six (6)**