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**MINISTRY OF EDUCATION, SCIENCE, VOCATIONAL TRAINING & EARLY CHILDHOOD EDUCATION**

**CHAMA DAY SECONDARY SCHOOL - MUCHINGA PROVINCE**

**GRADE 12 JETS SENIOR MATHEMATICS**

**DATE GIVEN: Friday, 07 February 2014**

**TIME ALLOCATION: 1 Min / Question Unless Specified In the Respective Question**

1. If x = 2 and y = -3, the value of x - y is

**Answer: 5**

1. 0.0557 when expressed correct to two decimal places is…

**0.06**

1. Three meters of electrical cable cost K12.90n. Find the cost of 7 meters.

**K30.10n**

1. 2% of 200 kilograms is…

**4kg**

1. Given that a = 2 and b = -3, evaluate a2b…

**-12**

1. Give the nth term for the following sequence: 1, 4, 9, …

**Answer: n2**

1. Give the number of faces and vertices of a cuboid.

**6 faces and 8 vertices**

1. Give the formula used in calculating the volume of the cylinder.

**Answer:** $πr^{2}h$

1. Give the position vector of point B (3, -2).

**Answer:  =** $\left(\begin{matrix} 3\\-2\end{matrix}\right)$

1. The bus fare from Chama to Lundazi is increased from K70.00n to K80.00, express the increase as a percentage of the original fare.

**12.5%**

1. At a Bureau De Change $1 = K5.50n. how many dollars can be bought for K126.00n.

**$22.91**

1. Chama Day Secondary School bus weighs 4 000 kg when empty. When loaded with 20 crates it weighs 4, 080 kg. Find the mass of one crate.

**4 kg**

1. Tn = 3n - 2, if n = 4 then T4 = ?

**10**

1. On Monday, Dickson was 26 minutes late for school, if he arrived at school at 14:11 hours, what time does his school start?

**13:45 hours**

1. A bag contains 3 black and 2 white balls. Two balls are taken from the bag at random, without replacement. Find the probability that both balls are black.

**Answer:** $\frac{3}{10}$

1. Find the value of $\sqrt{0.0081}$

**Answer: 0.09**