

KIPSUTER BOYS SECONDARY SCHOOL

CAT 1 TERM 2, 2017

FORM ONE

MATHEMATICS

Name: _____ Adm. No. _____ Class: _____ Date: _____

Instructions:

- i). Write your name, admission number, class & date in the spaces provided above.*
- ii). Check the question paper to ascertain that all pages are printed as indicated and that no question is missing.*
- iii). Answer **ALL** questions in the spaces provided after each question.*

1. Round off **64728651** to the nearest:

i). Thousands (1mk)

ii). Ten thousand (1mk)

iii). Million (1mk)

2. A trough for carrying tiles with internal measurements of 75cm long, 42cm wide and 6cm high is used to carry tiles which are 15cm long, 10.5cm wide and 2cm thick. Calculate the maximum number of tiles that can be carried using the trough. (3mks)

3. A farmer sold 17 litres of milk per day in the month of February 2012. If the farmer was paid sh. 33 per litre of milk, how much did the farmer receive from the sale of milk that month? (3mks)

4. Two security lights are set to light after 50 seconds respectively. If they lit together at 6.30 p.m., at what time will they light together again?(4mks)

5. Evaluate:

$$\frac{-2(5 + 3) - 9 \div 3 + 5}{-3 \times -5 + -2 \times 4}$$

(3mks)

6. Convert the following recurring decimals into fractions:

a) $2.\dot{3}1\dot{8}$ (2mks)

b) $5.\dot{2}\dot{3}$ (2mks)

7. All prime numbers between 10 and 20 are summed up to form a number:

- a) Find the number formed. (3mks)

b) Write down the number in (a) as a product of its prime factors. (1mk)

8. Use number line to illustrate the following: (3mks)

$$-3 - 4 + 12$$

9. If $x = -2$, $y = -6$ and $z = 4$, find the value of each of the following:

a) $4z + 2y - x$

b) $2y - 3x + z$

(4mks)

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