NAME	CLASS	ADM

MATHEMATICS FORM 1

INSTRUCTIONS: - Answer all questions in the spaces provided.

- 1. Without using a calculator, evaluate $\frac{-8 + (-5) X (-8) (-6)}{-3 + (-8) \div 2 X 4}$ (3 marks)
- 2. Three bells ring at intervals of 9minutes, 15 minutes and 21 minutes. If the bells last 3. Evaluate $\int_{1}^{3} \delta f \left(2\frac{3}{4} - 5\frac{1}{2}\right) X 3\frac{6}{7} \div \frac{9}{4}$ rang together at 11.00 a.m. Find the time the bells will next ring together. (3marks)

(3 marks)

1.53 X 0.35

(3 marks)

- 5. The average mass of students in a class of 45 was 41 at the beginning of the term. At the end of the term, they had each gained 3 kg. Calculate:
 - a) Their total mass at the end of the term. (2marks)
- b) The difference between their total masses at the start and at the end of term. (2 marks)
 6. Convert each of the following into a fraction
- s in a) 0.375

b) 2.275 🎺

(2 marks)

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(2marks)

c) 3.67 (2 marks) ax-ay+bx-by7. Simplify (3 marks) a+b

- 8. Tete withdrew some money from a bank. He spent $\frac{3}{8}$ of the money to pay Achol's school fees and $\frac{2}{5}$ to pay Tatu's school fees. If she remained with Kshs. 12,330, calculate the amount of money he paid for Tatu's school fees. (3 marks)
- www.treekcsepastpapers.com 9. Find the length of a square whose area is 0.0084 m^2 (2 marks) 10. What is the place value and the total value of each of the digits underlined below

a) 3 <u>4</u>86 789 🟑 (2 marks)

- b) 98 37<u>4</u> 803 041 (2 marks)
- 11. Express the following composite numbers as a product of prime factors
 - a) 5929 (2marks)



14. Perform the following operations using numberline(6 marks)a) -7 - (-8) =

c) -6 - (+6) =

- astpapers.com 15. Five companies employed 2340, 3455, 675, 960 and 1350 workers. The first two companies laid off 1 worker for every 5 while the other three recruited? new workers for every 3.
 - a) What was the total number of workers at the beginning? (2 marks)
 - Got jobs b) How many people i) (2 marks) ii) (2 marks)
- c) What was the total number of workers finally? (2 marks 16. Express each of the following as a single fraction in its simplest form
- a) $\frac{x+y}{3} \frac{2x-y}{2}$ (2 marks)

