## GATITU SECONDARY SCHOOL P.O BOX 327-01030 GATUNDU.

## FORM 3 MATHEMATICS TUNE-UP EXAM 3<sup>rd</sup> TERM 2015

## **INSTRUCTIONS**;

- (i)Answer all the questions on the spaces provided below each question showing all the working.
- (ii) Read and understand the questions before answering

(3mks)

2 Work out

$$3 7/8 + 3 7/8 \div 7 \frac{3}{4}$$
$$5 1/10 + 2 9/10$$

(3mks)

3Two parallel chords of a circle 4cm and 6 cm long lie on the opposite side of the circle. If the radius of the circle is 5cm, determine the distance between the two chords. (3mks)

4Solve by the use of common factors

5 Express as a single fraction

$$\frac{2y}{y+2} - \frac{3y+6}{y^2-4}$$

6 A basket is in the form of a frustum of a cone with base radius 5cm and the radius of the top being 6.5 cm. The vertical height is 7 cm.

(a) Find the volume of the baske	(a)	Find the	volume	of the	baske
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(4mks)

7 Find the perimeter of the following figure

(3mks)

8 Simplify by rationalizing the denominator.

(3mks)

 $\frac{\sqrt{2} + \sqrt{3}}{\sqrt{5} - \sqrt{2}}$ 

9 Three men working 8 hours daily can complete a piece of work in 5 days. Find how long it will take 10 men working 6 hours a day to complete the same work. (3mks)