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

FORM 3 MATHEMATICS TUNE-UP EXAM 3<sup>rd</sup> TERM 2014

NAME-----**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

1 Evaluate

(3mks)

2 Work out

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

(3mks)

3 Two 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)

4 Solve by the use of common factors

$$2x^2 + 3x - 9$$

5 Express as a single fraction

$$2y - 3y + 6$$

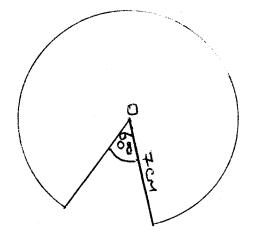
$$y + 2 y^2 - 4$$

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 basket

(4mks)

7 Find the perimeter of the following figure



(3mks)

8 Simplify by rationalizing the denominator.

(3mks)

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)