**GATITU MIXED SECONDARY SCHOOL**

 **FORM TWO MATHEMATICS CAT 1 TERM 2 2015**

1. Use tables of cubes to find the cubes of the following;

1. 9.6
2. 6.984
3. 0.37

2

1. Find the surface area of a rectangular glass blocks whose volume is 1524cm3, if it is 72cm long and 48cm wide.
2. The diameter of a cylindrical container, closed at both ends, is 0.28 m and its height is 14m. find its:
3. Surface area
4. Volume(s.f.)

3. Solve the following simultaneous equation;

 i) 3x +4y=18

 2x-y=1

 ii)-0.5x+y=5

 -1/3y=5

4.Five men,each working 10 hours a day,take two days to cultivate one acre of land.how long will two men,aech working six hours a day,take to cultivate three acres of land?

 5.The sum of interior angles of a regular n-sided polygon is 1080.find the size of each interior

 angle of the polygon.what is the name of polygon.

 6.The diameter of a cylindrical container of height 40cm and open at one end is 0.28m.Find;

 a) the surface area in cm.

 b)the volume of the container in cm(to 4 s.f)

 7.The ratio of the radii of two spheres is 4:5,Whats the ratio of:

 a)their surface areas.

 b)their volumes

 8. The length of each side of a square is increased by 15%, calculate the percentage increase in it’s Area

9. A man hired a car for two weeks for sh.10, 500.How much would it have cost him to hire it for nine days