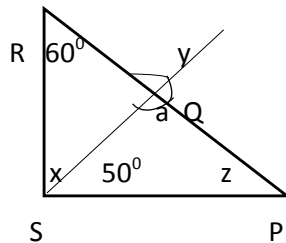# O'LEVEL MTCS REV QNS

1. Given that A={1,3,5,7,9}   and B={2,3,4,5,7}
   Draw a Venn diagram and use it to find;
   i)   AnB
   ii)   AuB
   iii) A^1
2. Workout $13^{1/5}$-$1^{5/6}$
3. Find the gradient of the line passing through the points.
   A (3, 1)   and B (8, 6)
4. Share 200 mangoes in the ratio of 2:5
5. Complete the sequence below;
   i)   2,4,6,8, —— , —— , ——
   ii)   3,6,12,24, —— , —— , ——
6. Find the L.C.M of 36 and 12
7. Find the radius of the circle whose circumference is 62.8.
8. If y=4-2x, find the value of y when
   i)   X=-4
   ii)   X=3
9. Construct an angle of 75^0 using a ruler, pencil and protractor only.
10. Convert 0.222………to a fraction.
11. a) Using a ruler, pencil and pair of compasses, construct a triangle ABC such that $\overline{AB}$=6cm angle
    $A\hat{B}C$= 60^0 and $B\hat{A}C$= 30^0.
    b) Measure lines $\overline{BC}$ and $\overline{AC}$
    c) Construct an inscribed circle on a triangle
    d) Find the area of the circle

 12. By first drawing a table;

     a) Draw a graph of the equation y=2x +1 for value of x from -2 to 6

      b) Show that the graph above is 2. (Choose any two points from the graph)

13. a)

             S   P   In the diagram above find the values of a, y, z and Q

    b) Christine bought $\frac{1}{2}$ kg of rice at 1000/= per kg, $\frac{3}{4}$kg of beans at 4000/= per kg and $\frac{3}{4}$kg of cooking
oil at 2000/= ltr. How much money has he spent?