Q 1 Find two irrational numbers between 2 and 2.5.
${ }^{\circ}$ Q2 Ordinate of each point on the x -axis is---------.
Q 3 Simplify $(x+y+z)^{2}$
(1).

Q 4 IF $\mathrm{x}=3+2 \sqrt{2}$, then find the value of $\left(x-\frac{1}{x}\right)^{3}$.
Q 5 Write four solution of $2 x+y=7$.
$Q 6$ If the point $(3,4)$ lies on equation $3 y=a x+7$, find the value of $a$.
Q 5 Two complementary angles are such that two times the measure of one is equal to three times the measure of the other. Find the measure of the larger angle.

Q 6 IF two lines intersect each other, then prove that their vertically opposite angles are equal.(3)
Q7 Show that the angles of an equilateral triangle are $60^{\circ}$ each.
Q 7 If both ( $x-2$ ) and ( $x-1 / 2$ ) are factors of $a x^{2}+5 x+c$, Show that $a=c$.
Q 8 Find the square root of 9.3 geometrically.
Q 9 IF each side of triangle is doubled, then find the ratio of area of new triangle so formed.(3)
Q10 Prove that cyclic parallelogram is a rectangle.
Q 11 Equal chords of a circle are equidistant from the center.
Q 12.The side QR to triangle $P Q R$ is produced to a side S .If the bisectors of
$<P Q R$ and $<P R S$ meet at point $T$, then prove that $<Q T R=\frac{1}{2}<Q P R$.
Q 13.Prove that sum of three angles of triangle is 180 .
(4)

Q 14.Find mean mode and median $2,3,4,5,0,1,3,3,4,3$.
(4)
$Q$ 15. The side $B C$ of triangle $A B C$ is produce to point $D$, the bisector of $<B A C$ intersects the side $B C$ at $E$, prove that $<A B C+<A C D=2<A E C$.

