A 13 9.85% are under 40 89.97% are under 60 n=? & == P(X<40) = 0.0985 P(X560)=0.8997 $P(X < 40) = P(Z < Z_1) = 0.0987$ Rehere $\{Z_1 = 40 - 17\}$ 6.5-P(Z,<Z<0)=0.0987 0.5-0.0987 = P(2,<2<0) 0.4013 = P(Z, <Z(0) * Z, = + 1.29 2, = 1.29 0-4=-1:29 - (D)

$$P(x < 60) = 0.8997 \quad \{zz = 60-m\}$$

$$P(z < z_{2}) = 0.8997 \quad \{zz < 60 = 0.8997 \quad 0.5 - P(zz < z < 6) = 0.8997 \quad 0.5 - 0.8997 = P(zz < z < 6) \quad 0.3997 = P(zz < z < 6) \quad 0.3997 = P(zz < z < 6) \quad 0.29 = P(zz < z < 6) = 0.28 = P(zz < z < 6) = 0.28 = 0.28 = 0.09 = 0$$

(i)
$$P(x7,50) = ?$$
 $x ? no of student will pais $P(z > z_1 > z_2 > z_2$$

$$P(z >, z_1) = 0.7$$
 $0.5 - P(0 < z < z_1) = 0.7$
 $0.5 - P(0 < z < z_1) = 0.7$
 $z_1 = -0.53$

$$\frac{2}{2} = \frac{1}{2} + \frac{10}{2} = \frac{10}{2} =$$

$$P(x)(0) = P(x > 6.0 - 440)$$

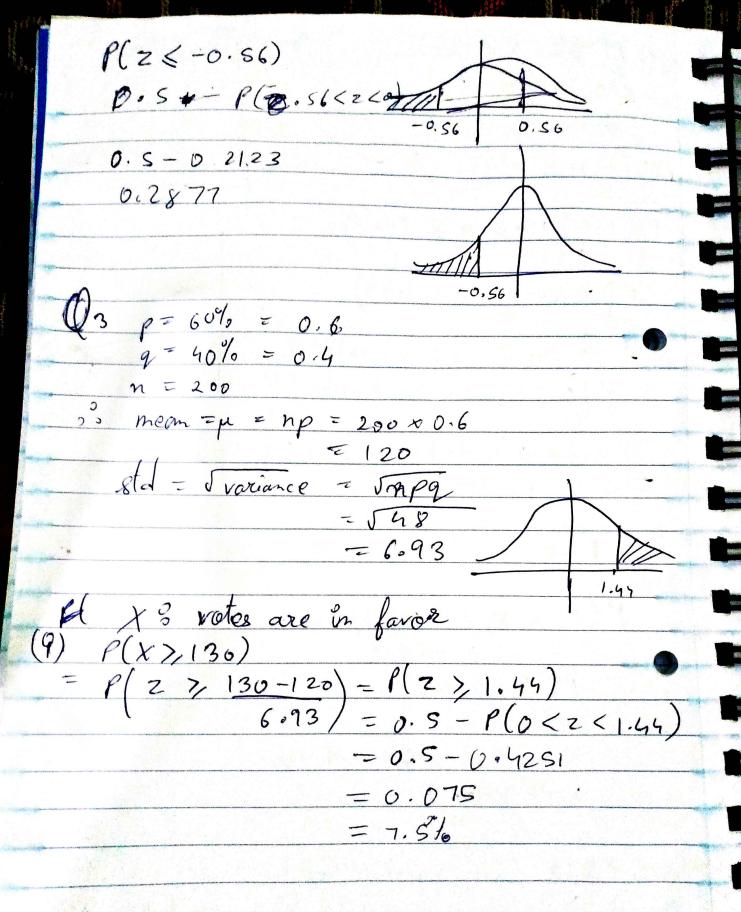
$$= P(x > 6.0 - 440)$$

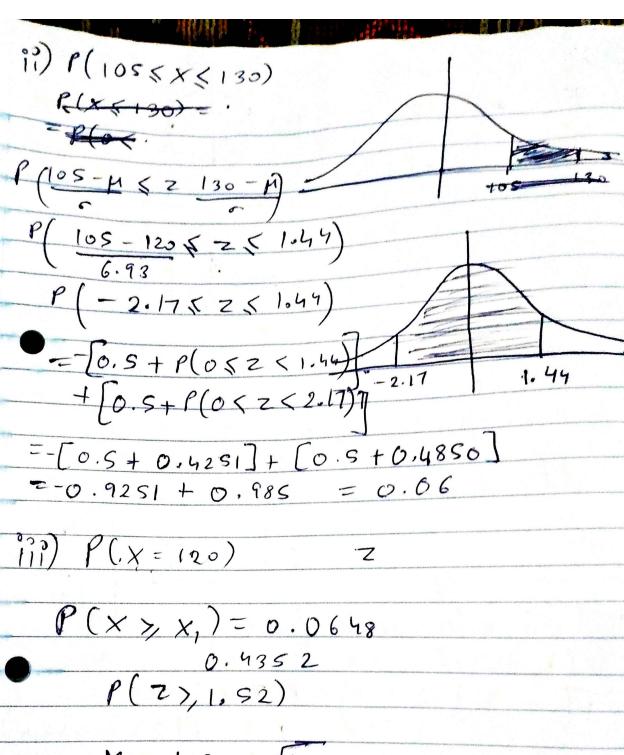
$$= P(x > 2)$$

$$= P(x$$

$$P(Z \le -0.56) = 0.5 - P(0-0.56) = 0.5 - P(0-0.56) = 0.5 + P(0 < z < 0.56) = 0.5 + 0.2123$$







$$X_1 = 1.52 \times \sqrt{48} + 120$$

 $X_1 = 130.5$