

$$1. n = (200 + 800) / 2 = 500 \quad D = 600^2 / 12 = 30000$$

$$2. 0.2 = \frac{(0.5 - x)^2}{12} \Rightarrow 0.5 - x = \sqrt{2.4} \Rightarrow x = 0.5 - \sqrt{2.4}$$

$$3. H = 2 \quad D = 16 \quad std = 4$$

$$4. n = 144$$

$$std = 8$$

$$a) z = 1 \quad p = 0.8413$$

$$b) z = 2 \quad p = 0.9772$$

$$b) z_1 = -1 \quad p_1 = 0.1587 \quad p = 0.9772 - 0.1587 = 0.8185$$

$$2) p = 0.8413 - 0.1587 = 0.6826$$

$$g) z_1 = -2 \quad p_1 = 0.0228 \quad p = 0.9772 - 0.0228 = 0.9544$$

$$e) z_1 = -3 \quad p_1 = 0.0013 \quad p_2 = 1 - 0.9772 \quad p = 0.0241$$

$$e) z_2 = 3 \quad p_2 = 1 - 0.9987 \quad p = 0.0013 + 0.0013 = 0.0026$$

$$uc) z = -1 \quad p = 0.1587$$

$$5. n = 178 \quad D = 25 \quad G = 5$$

$$z = \frac{190 - 178}{5} = 2.4$$