$$\frac{8vi7 1C - Stats}{Suumer 2014}$$
(1) Order:
$$\frac{4, 6, 7,7,8,9, 12,12}{4, 6, 7,7,8,9, 12,12}$$

$$a) Lor, C_1 = \left(\frac{2s}{100}\right) \times s = 2 \xrightarrow{t0.5} 2.5$$

$$Q_1 = \frac{6+7}{2} = 6.5$$

$$Q_1 = \frac{7+8}{2} = 7.5$$
(2)  $S = \sqrt{\frac{2(x-x)^2}{2}} \approx 2.80$ 

d) 
$$7, 12$$
  
e)  $Loc. P82 = {82 \choose 100} \times 8 = 6.56 - 57$   
 $82 = 12$   
 $100 \times 82 = 6.56 - 57$ 

3) 
$$ll = 20bvys; \quad T = 5 b vys$$

a)  $R.18 \ Cx \ C23) = ?$ 
 $212 \ \frac{x - ll}{f} = \frac{18 - 20}{5} = -0.40$ 
 $22 = 23 - 20 = 0.60$ 
 $P(-0.usc \ 2 \ 0.60) = -0.uo \ 0.60 \ 0.7257 - 0.3446$ 
 $= 0.3811$ 

G 
$$P = 0.02$$
;  $Q = 0.98$ ;  
 $n = 20$ 

A  $P(x = 4) = n(x \times p^{2} \times 2^{u-x})$ 
 $= 20 \quad C_{4} \times 0.02 \times 0.98 \stackrel{=}{=} 0.0006$ 
 $= 20 \quad (0.000561...)$ 

b)  $P(x = 2) = P(0) + P(1) + P(2)$ 
 $= 20 \quad (0 \times 0.02 \times 0.98 + 20 \quad (1 \times 0.02 \times 0.98)^{19}$ 
 $= 20 \quad (2 \times 0.02 \times 0.98 = 20.99)^{29}$ 
 $= 20 \quad (2 \times 0.02 \times 0.98)^{19}$ 

$$5 \quad a) \quad u = -1.21$$

$$u = \frac{\chi(\xi * g) - (\xi *)(\xi g)}{\chi(\xi * x^2) - (\xi *) 2}$$

$$b) \quad b = 35.64 \quad \xi * x = 43$$

$$\xi * y = 126$$

$$\xi * x = 985$$

$$\xi * x = 457$$

(6) 
$$a/w = 3 - 0.5 = (2.5)$$
  
6)  $42.88/.$   
 $21/2$   $21/2$