(a) 
$$M = 100$$
  $C = 10$   $Z = \frac{x - M}{6}$   
 $X = 106$   $Z = \frac{106 - 100}{10} = \frac{6}{10} = + \frac{4.50}{10}$   
 $X = 125$   $Z = \frac{125 - 100}{10} = \frac{25}{10} = + \frac{4.50}{10}$   
 $X = 93$   $Z = \frac{93 - 100}{10} = -\frac{17}{10} = -\frac{170}{10}$   
 $X = 90$   $Z = \frac{90 - 100}{10} = -\frac{10}{10} = -\frac{130}{10}$   
 $X = 97$   $Z = \frac{97 - 100}{10} = -\frac{13}{10} = \frac{1.30}{10}$   
 $X = 118$   $Z = \frac{118 - 100}{10} = \frac{18}{10} = + \frac{1.80}{10}$ 

$$Z=2.30$$
  $X=100+(2.30)(10)=(12.3)$ 

$$Z = -3.00$$
  $X = 100 + (3.00)(10) = 70$ 

I would pufer a war of \$8 Lecause

with T= 8 location of my sore is

versus with 
$$Z = \frac{73-65}{16} = \frac{8}{16}$$

$$z = \frac{x - M}{5} = \frac{78 - 72}{12} = \frac{6}{12} = 4.50$$

$$\frac{1}{5} = \frac{10}{5} = \frac{10}{5} = \frac{10}{5} = \frac{10}{5} = \frac{10}{5} = \frac{10}{5}$$
Wigher position

I expect a higher grate on the English excum

Sharon 9 pts above mean : x=99

$$2 = \frac{99-90}{10} = \frac{9}{10} = (4.90)$$

Jill's 2-5 care is ± 1.20 : x=90 + 1.20 Y10)

=90 + 12

=002

Steve is 5 standard deviation above the mean

: his 2 = (.50) : x=90 + 5=95

Ramon's score of X=110

Z = X - M Z = 110 - 90 = 20 = +2.00

Highest Ramon +2.00 110

Jill 1.20 102

Sharon .90 99

Lowert Steve .50 95