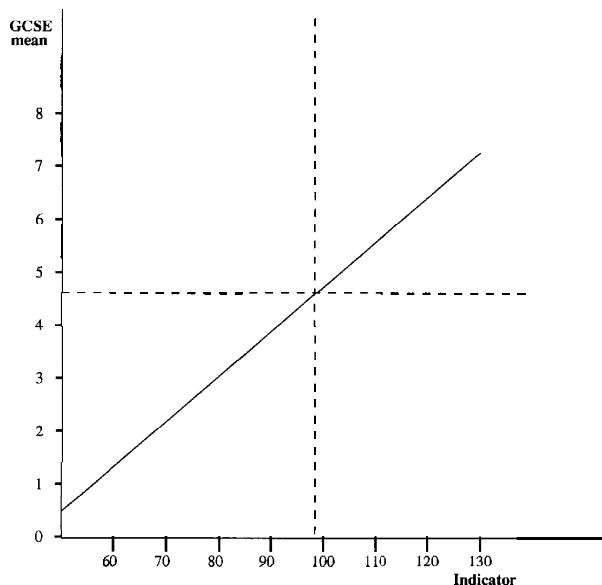


# Appendix F

GCSE and Edinburgh Reading Test  
Regression line graphs for  
18 schools in 1996

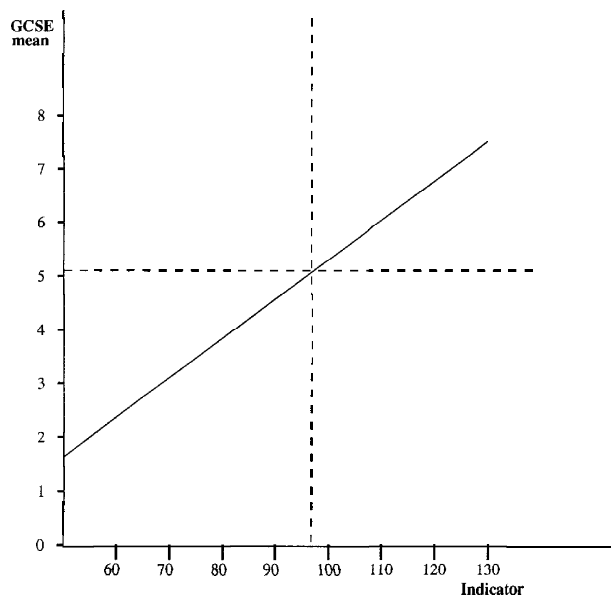
Combined sample &  
Individual schools

### 18 Schools GCSE 1996



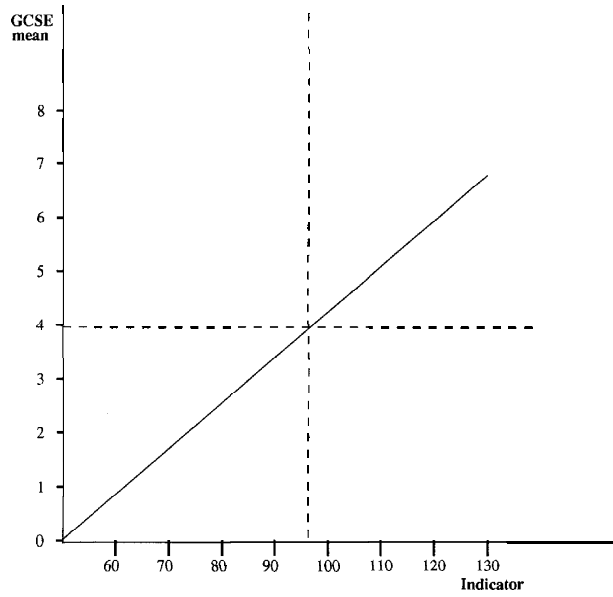
Number of pupils in the sample 2834  
 Mean for X is 98.42      Mean for Y is 4.63  
 Standard deviation for X is 12.90      Standard deviation for Y is 1.51  
 Covariance is 14.09  
 Coefficient of correlation is 0.73  
 Coefficient of determination is 52.68%  
 Standard error of estimation for Y upon X is 1.04

### GCSE 1996 School 1



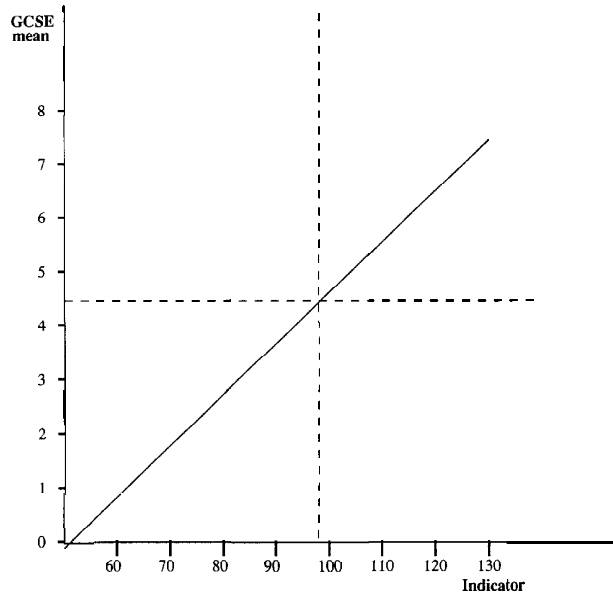
Number of pupils in the sample 100  
 Mean for X is 96.87      Mean for Y is 5.13  
 Standard deviation for X is 13.60      Standard deviation for Y is 1.42  
 Covariance is 13.61  
 Coefficient of correlation is 0.71  
 Coefficient of determination is 49.96%  
 Standard error of estimation for Y upon X is 1.00

### GCSE 1996 School 2



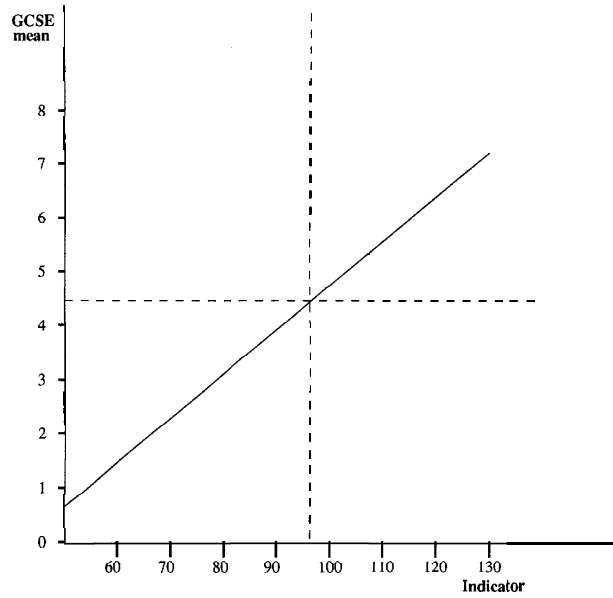
Number of pupils in the sample 111  
 Mean for X is 96.38      Mean for Y is 3.99  
 Standard deviation for X is 11.32      Standard deviation for Y is 1.36  
 Covariance is 10.82  
 Coefficient of correlation is 0.70  
 Coefficient of determination is 49.58%  
 Standard error of estimation for Y upon X is 0.96

### GCSE 1996 School 3



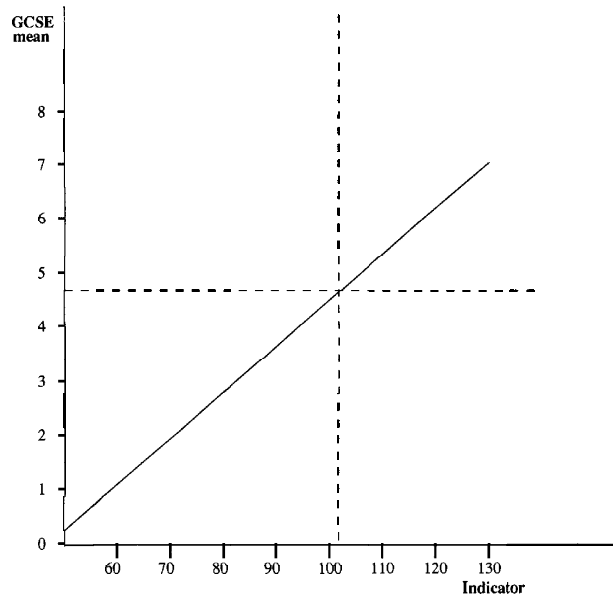
Number of pupils in the sample 137  
 Mean for X is 98.09      Mean for Y is 4.49  
 Standard deviation for X is 12.08      Standard deviation for Y is 1.48  
 Covariance is 13.82  
 Coefficient of correlation is 0.77  
 Coefficient of determination is 59.43%  
 Standard error of estimation for Y upon X is 0.95

### GCSE 1996 School 4



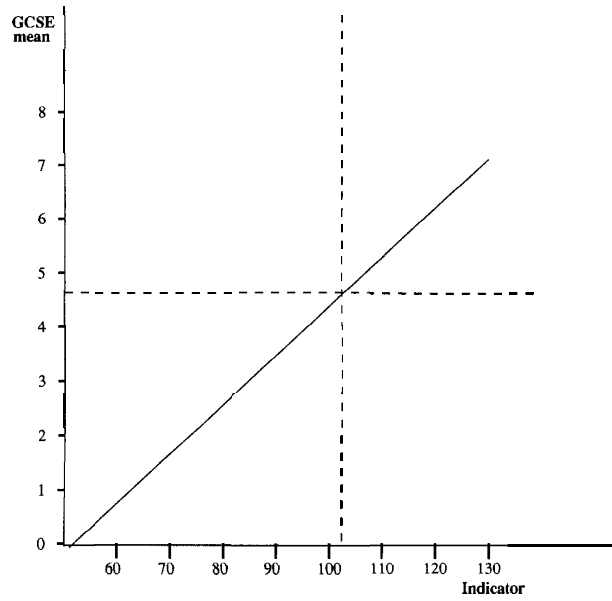
Number of pupils in the sample 156  
 Mean for X is 96.33      Mean for Y is 4.48  
 Standard deviation for X is 11.99      Standard deviation for Y is 1.45  
 Covariance is 11.75  
 Coefficient of correlation is 0.68  
 Coefficient of determination is 46.04%  
 Standard error of estimation for Y upon X is 1.06

### GCSE 1996 School 5



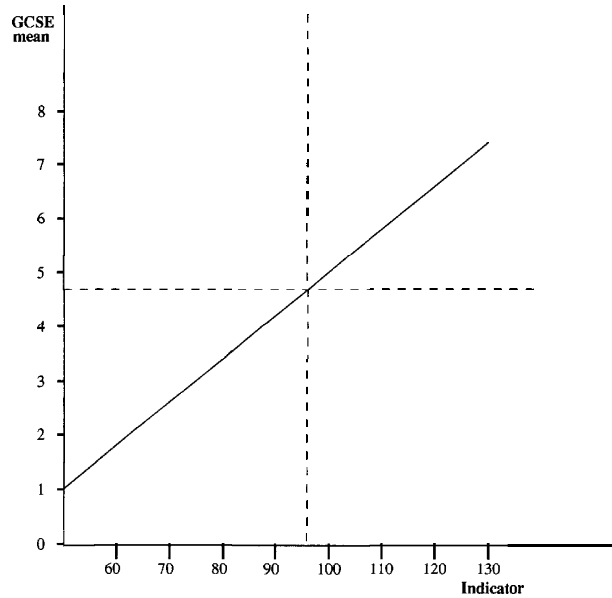
Number of pupils in the sample 223  
 Mean for X is 101.74      Mean for Y is 4.69  
 Standard deviation for X is 13.59      Standard deviation for Y is 1.48  
 Covariance is 15.73  
 Coefficient of correlation is 0.78  
 Coefficient of determination is 60.80%  
 Standard error of estimation for Y upon X is 0.93

### GCSE 1996 School 6



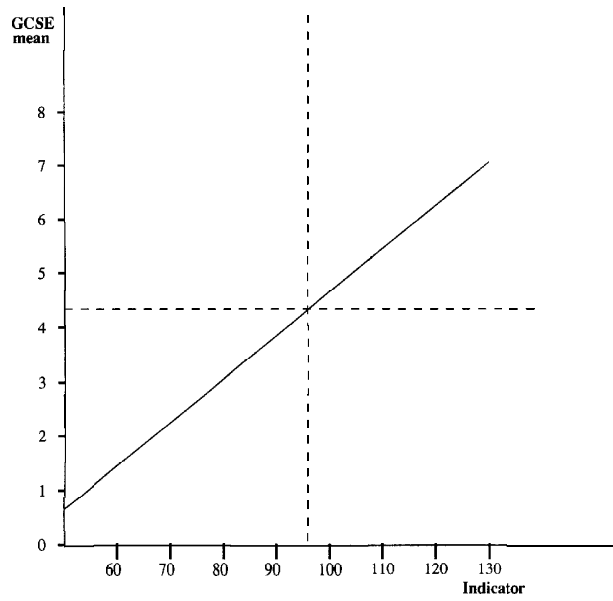
Number of pupils in the sample	224	Mean for Y is	4.65
Mean for X is	102.36	Standard deviation for Y is	1.48
Standard deviation for X is	12.84		
Covariance is	15.01		
Coefficient of correlation is	0.79		
Coefficient of determination is	62.23%		
Standard error of estimation for Y upon X is	0.91		

### GCSE 1996 School 7



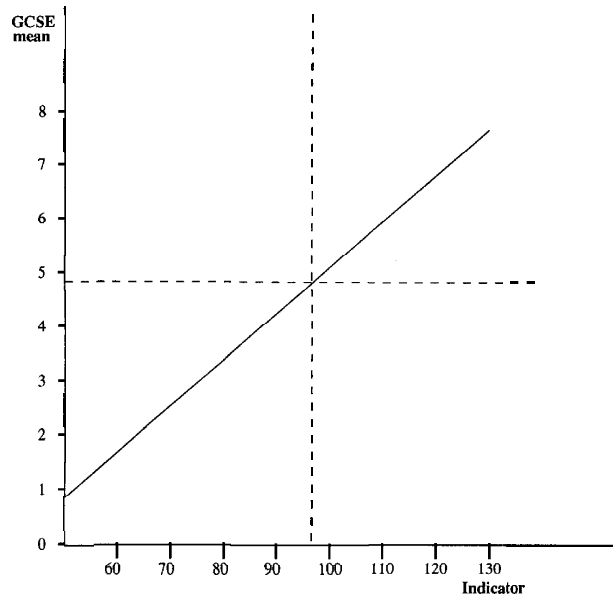
Number of pupils in the sample	106	Mean for Y is	4.73
Mean for X is	95.91	Standard deviation for Y is	1.47
Standard deviation for X is	13.86		
Covariance is	15.35		
Coefficient of correlation is	0.75		
Coefficient of determination is	56.71%		
Standard error of estimation for Y upon X is	0.97		

### GCSE 1996 School 8



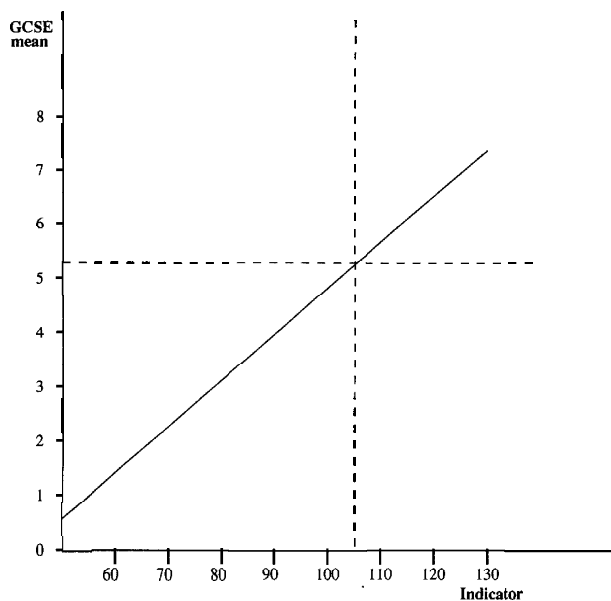
Number of pupils in the sample 317  
 Mean for X is 95.91      Mean for Y is 4.38  
 Standard deviation for X is 12.45      Standard deviation for Y is 1.50  
 Covariance is 12.42  
 Coefficient of correlation is 0.66  
 Coefficient of determination is 44.08%  
 Standard error of estimation for Y upon X is 1.12

### GCSE 1996 School 9



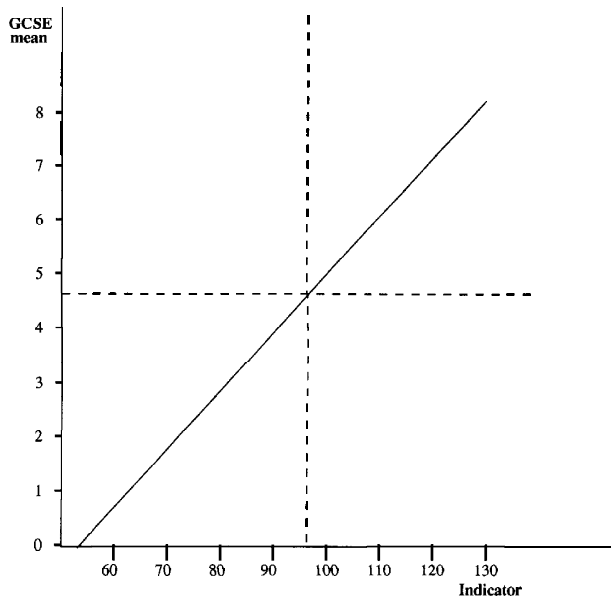
Number of pupils in the sample 182  
 Mean for X is 96.60      Mean for Y is 4.85  
 Standard deviation for X is 12.58      Standard deviation for Y is 1.43  
 Covariance is 13.42  
 Coefficient of correlation is 0.74  
 Coefficient of determination is 55.29%  
 Standard error of estimation for Y upon X is 0.96

### GCSE 1996 School 10



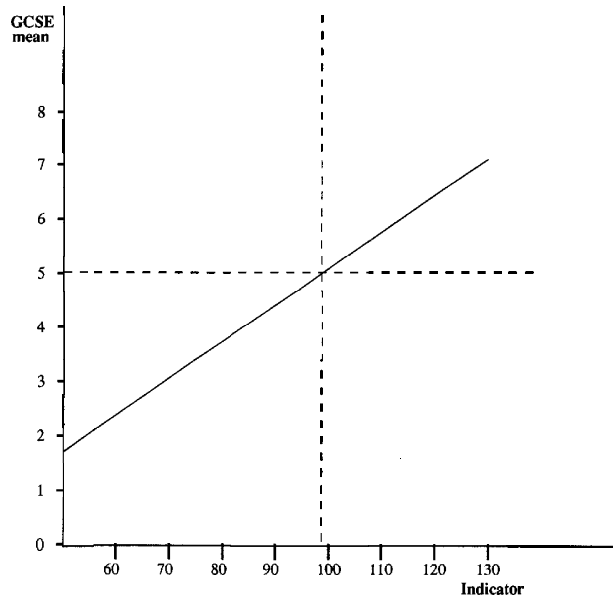
Number of pupils in the sample 159  
 Mean for X is 105.13      Mean for Y is 5.30  
 Standard deviation for X is 12.84      Standard deviation for Y is 1.46  
 Covariance is 14.01  
 Coefficient of correlation is 0.75  
 Coefficient of determination is 55.79%  
 Standard error of estimation for Y upon X is 0.97

### GCSE 1996 School 11



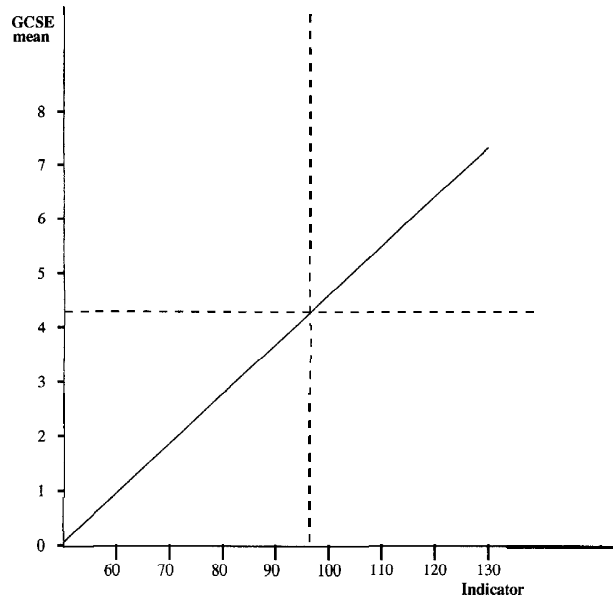
Number of pupils in the sample 131  
 Mean for X is 96.42      Mean for Y is 4.65  
 Standard deviation for X is 12.74      Standard deviation for Y is 1.78  
 Covariance is 17.41  
 Coefficient of correlation is 0.77  
 Coefficient of determination is 58.73%  
 Standard error of estimation for Y upon X is 1.15

### GCSE 1996 School 12



Number of pupils in the sample 98  
 Mean for X is 98.72      Mean for Y is 5.05  
 Standard deviation for X is 12.43      Standard deviation for Y is 1.16  
 Covariance is 10.43  
 Coefficient of correlation is 0.72  
 Coefficient of determination is 52.17%  
 Standard error of estimation for Y upon X is 0.80

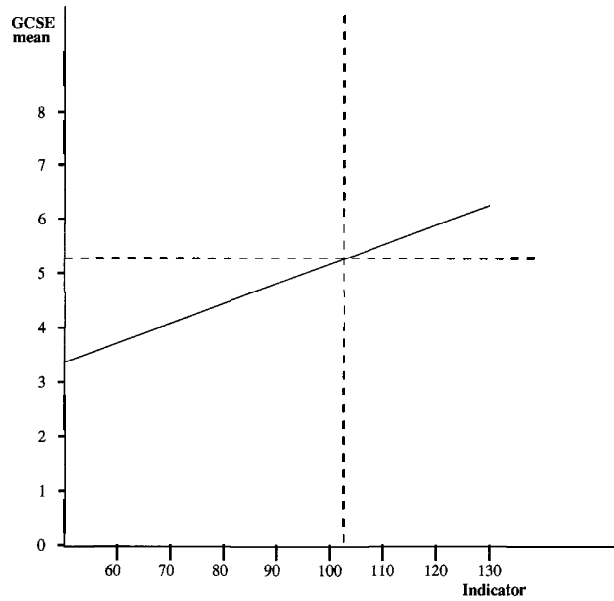
### GCSE 1996 School 13



Number of pupils in the sample 202  
 Mean for X is 96.49      Mean for Y is 4.33  
 Standard deviation for X is 12.66      Standard deviation for Y is 1.58  
 Covariance is 14.57  
 Coefficient of correlation is 0.73  
 Coefficient of determination is 53.15%  
 Standard error of estimation for Y upon X is 1.08

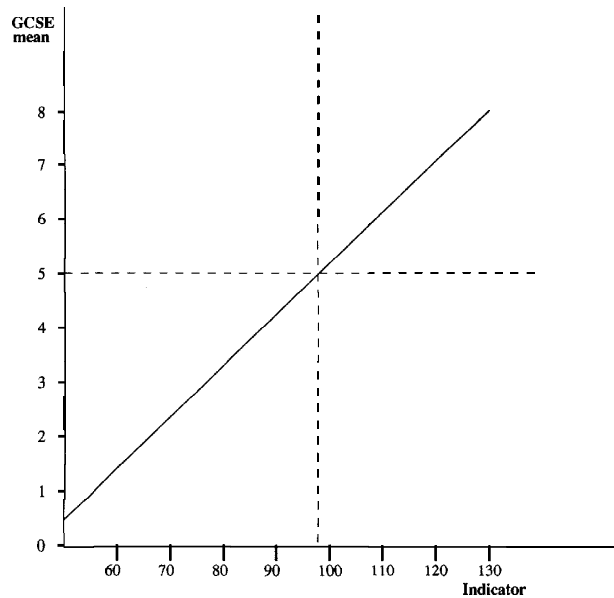


### GCSE 1996 School 14



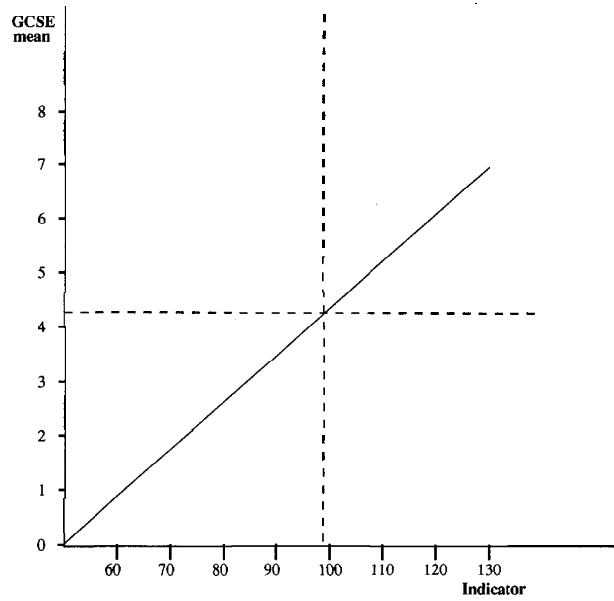
Number of pupils in the sample 44  
 Mean for X is 102.64      Mean for Y is 5.31  
 Standard deviation for X is 10.14      Standard deviation for Y is 0.81  
 Covariance is 3.71  
 Coefficient of correlation is 0.45  
 Coefficient of determination is 20.18%  
 Standard error of estimation for Y upon X is 0.73

### GCSE 1996 School 15



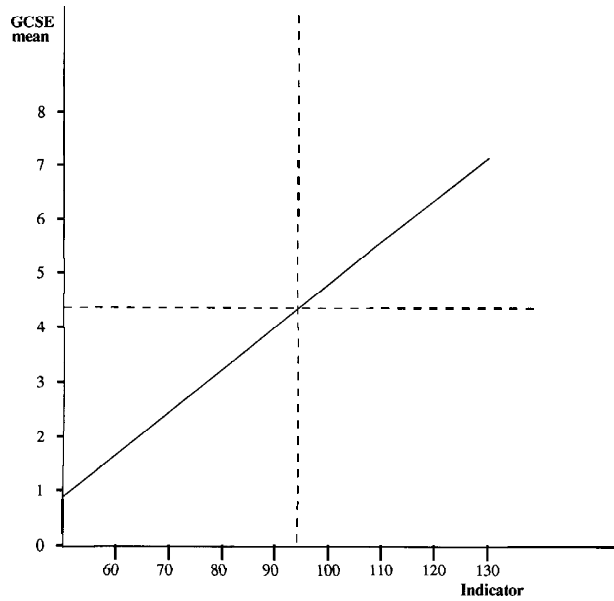
Number of pupils in the sample 112  
 Mean for X is 97.83      Mean for Y is 5.04  
 Standard deviation for X is 12.07      Standard deviation for Y is 1.46  
 Covariance is 13.74  
 Coefficient of correlation is 0.78  
 Coefficient of determination is 61.14%  
 Standard error of estimation for Y upon X is 0.91

### GCSE 1996 School 16



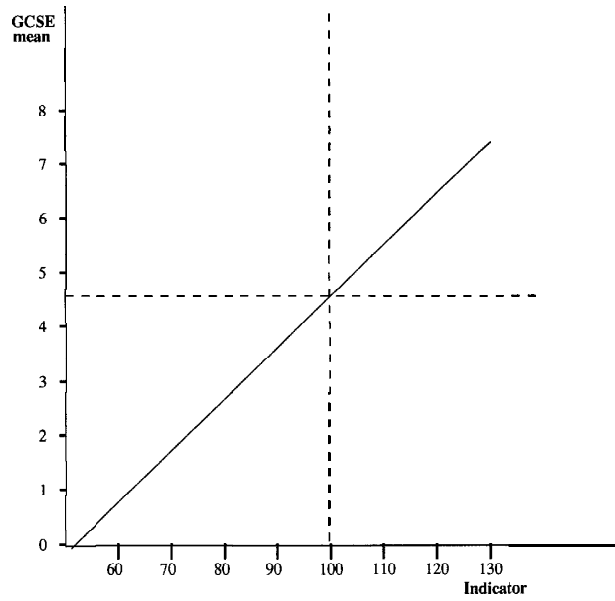
Number of pupils in the sample 200  
 Mean for X is 98.81      Mean for Y is 4.30  
 Standard deviation for X is 13.55      Standard deviation for Y is 1.52  
 Covariance is 15.88  
 Coefficient of correlation is 0.77  
 Coefficient of determination is 59.72%  
 Standard error of estimation for Y upon X is 0.96

### GCSE 1996 School 17



Number of pupils in the sample 99  
 Mean for X is 94.20      Mean for Y is 4.39  
 Standard deviation for X is 13.61      Standard deviation for Y is 1.42  
 Covariance is 14.49  
 Coefficient of correlation is 0.75  
 Coefficient of determination is 56.32%  
 Standard error of estimation for Y upon X is 0.94

### GCSE 1996 School 18



Number of pupils in the sample	233	Mean for Y is	4.59
Mean for X is	99.72	Standard deviation for Y is	1.39
Standard deviation for X is	10.74		
Covariance is	10.93		
Coefficient of correlation is	0.73		
Coefficient of determination is	53.85%		
Standard error of estimation for Y upon X is	0.94		