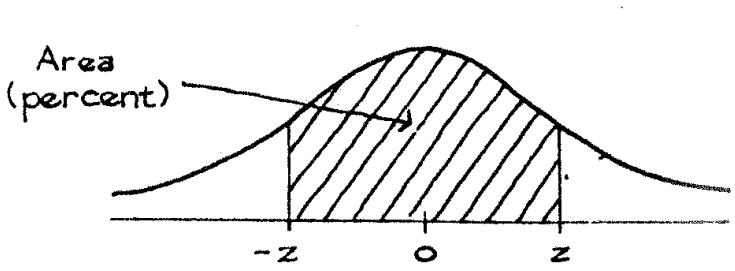
A SHORT TABLE OF THE NORMAL DISTRIBUTION

z	Area (percent)
0.0	0
0.1	8
0.2	16
0.33	25
0.50	38
0.58	44
0.67	50
0.75	55
1.00	68
1.25	79
1.50	87
1.65	90
1.75	92
2.00	95
2.25	98
3.00	99.7



Some useful formulas for this exam:

For regression of y on x, with correlation coefficient r:
RMS error = $\sqrt{1-r^2}\times$(SD of y).

For a number of draws, with replacement, from any "box":
EV of sum = (number of draws) $\times$ (box average)
EV of average = (EV of sum)/(number of draws) = box average.

SE of sum = $\sqrt{\text{number of draws}}\times$ (SD of box)
SE of average = (SE of sum)/(number of draws) = (SD of box)/$\sqrt{\text{number of draws}}$

For a "box" with tickets of 0's and 1's:
The sum is the number (or count) of 1's in the draws made.
The average is the proportion of 1's in the draws made.
Box average = (fraction of 1)
SD of box = $\sqrt{\text{fraction of 0} \times \text{fraction of 1}}$

If two chance outcomes have standard errors SE1 and SE2,
then the standard error (SE) for the difference is:
SE for difference = $\sqrt{(SE1)^2 + (SE2)^2}$.