

## SOLVED PROBLEMS

### Example 1 ✓

$X$  is a normal variate with mean 42 and standard deviation 4. Find the probability that a value taken by  $X$  is (i) less than 50 (ii) greater than 50 (iii) less than 40 (iv) greater than 40 (v) between 43 and 45 (vi) between 40 and 44 (vii) between 37 and 41.

### Solution

$X$  is normal variate with parameters  $\mu = 42$  and  $\sigma = 4$ .

Therefore,  $Z = \frac{X - \mu}{\sigma} = \frac{X - 42}{4}$  is a Standard Normal variate.

$$(i) P[X < 50] = P\left[\frac{X - 42}{4} < \frac{50 - 42}{4}\right]$$

$$= P[Z < 2]$$

$$= P(-\infty < Z < 0) + P(0 < Z < 2)$$

$$= [\text{area from } (-\infty) \text{ to } 0] + [\text{area from } 0 \text{ to } 2]$$

$$= 0.5 + 0.4772$$

$$= \mathbf{0.9772}$$



$$(ii) P[X \geq 50] = P\left[\frac{X - 42}{4} \geq \frac{50 - 42}{4}\right]$$

$$= P[Z > 2]$$



# Normal Distribution Problems And Answers

**Lucien Blair Kinney**



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