

3. (i) If you log on to the server, then you have a password.  
 (ii) If it rains, then there is traffic jam.  
 (iii) If you can access the website, then you pay a subscription fee.
4. (i) You watch television if and only if your mind is free.  
 (ii) You get an A grade if and only if you do all the homework regularly.  
 (iii) A quadrilateral is equiangular if and only if it is a rectangle.
5. The compound statement with “And” is 25 is a multiple of 5 and 8  
 This is a false statement.  
 The compound statement with “Or” is 25 is a multiple of 5 or 8  
 This is a true statement.
7. Same as Q1 in Exercise 14.4

### EXERCISE 15.1

1. 3                      2. 8.4                      3. 2.33                      4. 7
5. 6.32                      6. 16                      7. 3.23                      8. 5.1
9. 157.92                      10. 11.28                      11. 10.34                      12. 7.35

### EXERCISE 15.2

1. 9, 9.25                      2.  $\frac{n+1}{2}, \frac{n^2-1}{12}$                       3. 16.5, 74.25                      4. 19, 43.4
5. 100, 29.09                      6. 64, 1.69                      7. 107, 2276                      8. 27, 132
9. 93, 105.58, 10.27                      10. 5.55, 43.5

### EXERCISE 15.3

1. B                      2. Y                      3. (i) B, (ii) B
4. A                      5. Weight

### Miscellaneous Exercise on Chapter 15

1. 4, 8                      2. 6, 8                      3. 24, 12
5. (i) 10.1, 1.99    (ii) 10.2, 1.98
6. Highest Chemistry and lowest Mathematics                      7. 20, 3.036