

Vidhigya Challenger Series Daily Practice Sheet 8 Quantitative Techniques

Directions (1-5): Read the following information carefully and answer the questions that follow.

There are 6 articles 'A', 'B', 'C', 'D', 'E' and 'F'. The article 'A' is being sold at a discount of 25% and a mark-up of 60%. The article 'B' is being sold at a discount of 15% and a mark-up of 40%. The article 'C' is being sold at a discount of 20% and a mark-up of 65%. The article 'D' is being sold at a discount of 30% and a mark-up of 50%. The article 'E' is being sold at a discount of 15% and a mark-up of 20%. The article 'F' is being sold at a discount of 20% and a mark-up of 35%.

1. If the Cost Price of article 'A' is 450 and that of article 'D' is 500 then, find the ratio of marked price of article 'A' and 'D'.			
(a) 24:25	(b) 25:24	(c) 12:25	(d) 25:12
2. If the cost price of article E is 100% more than that of article 'A' then, the marked price of 'E' is what percent more than marked price of 'A'?			
(a) 40%	(b) 33.33%	(c) 50%	(d) 55.55%
3. Selling price of the article 'C' is 528. If Marked Price of the both the articles 'C' and 'E' is same then, find the sum of selling price of both the articles 'C' and 'E'.			
(a) 1089	(b) 1023	(c) 1057	(d) 1105
4. The cost price of articles B and F is 600 each. Find the total amount of profit earned on both these articles.			
(a) 154	(b) 158	(c) 162	(d) Cannot be determined
5. Find the ratio of Cost Price of article F to the selling price of the same article.			
(a) 16:27	(b) 16:25	(c) 25:16	(d) 25:27



Answers & Explanations

1. Ans. a

Sol. COMMON EXPLANATION CP of A = 450 MP of A = 60% more than 450 = 450 + 270 = 720 CP of D = 500 MP of D = 50% more than 500 = 500 + 250 = 750 Required ratio = 720:750 = 24:25 Hence, option (a) is correct.

2. Ans. c

Sol. Following the COMMON EXPLANATION Let CP of A = 100 Thus, MP of A = 60% more than CP = 160 CP of E is 100% more than A = 200 Thus, MP of E = 20% more than CP = 240 Required % = (240-160)/160 = 80/160 = 1/2 = 50% Hence, option (c) is correct.

3. Ans. a

Sol. Following the COMMON EXPLANATION Discount at article C = 20% = 1/5 So, MP = 5 and SP = 4 SP = 4 units = 528 1 unit = 528/4 = 132 Thus, MP = 5 units = 5*132 = 660 So, MP of both C and E = 660 Article E was sold a discount of 15% 15% of 660 = 66+33 = 99 So, SP of E = 660-99 = 561 Thus, total SP of both = 528+561 = 1089 Hence, option (a) is correct.

4. Ans. c

Sol. Following the COMMON EXPLANATION Net profit on B = 19% (calculate with the successive change formula) Net profit on F = 8% Total profit = 27% of 600 = 162 Hence, option (c) is correct.

5. Ans. d

Sol. Following the COMMON EXPLANATION Let CP of the article F = 100So, the MP = 35% more than that = 100+35 = 135A discount of 20% was offered on this Discount = 20% of 135 = 27SP = 135-27 = 108Ratio of CP to SP = 100:108 = 25:27Hence, option (d) is correct.