

Aptitude Assignment- 1

1. Ans (b)

$$\frac{25}{100} \times 200 \\ = 50 //$$

2. Ans (c)

$$\frac{40}{100} \times x = 80$$

$$x = \frac{80 \times 100}{40}$$

$$x = 200 //$$

3. Ans (b)

$$\frac{75}{100} \times x = 150$$

$$x = \frac{150 \times 100}{75}$$

$$x = 200 //$$

4. Ans (c)

$$\frac{15}{100} \times 120$$

$$= 18 //$$

5. Ans (c)

$$\frac{30}{100} \times x = 90$$

$$x = \frac{90 \times 100}{30}$$

$$x = 300 //$$

6. Ans (b)

$$\frac{250 - 200}{200} \times 100$$

$$= 25% //$$

7. Ans (b)

$$\frac{50,000 - 40,000}{40,000} \times 100$$

$$= 25% //$$

8. Ans (c)

$$P\downarrow = \frac{10,000 - 8,000}{10,000} \times 100$$

$$= \frac{2,000}{10,000} \times 100$$

$$= 20% //$$

9. Ans (c)

$$P\downarrow = \frac{500 - 400}{500} \times 100$$

$$= \frac{100 \times 100}{500}$$

$$= 20% //$$

10. Ans (c)

$$L\% = \frac{600 - 450}{600} \times 100$$

$$= \frac{150}{600} \times 100$$

$$= 25% //$$

11. Ans (c)

30% of 400.

$$\frac{30}{100} \times 400 = 120$$

40% of 300

$$\frac{40}{100} \times 300 = 120$$

Both are equal

12. Ans (c)

$$40\% \text{ of } x = 8000$$

$$\frac{40}{100} \times x = 8000$$

$$x = \frac{8000 \times 100}{40}$$

$$x = 20,000 //$$

13. Ans (b)

$$A = 120 \quad B = 100$$

$$\frac{120 - 100}{120} \times 100$$

$$= 16.67\%$$

16. Ans (a)

$$\text{Change: } a + b + \frac{ab}{100}$$

$$= 20 - 10 + \frac{20(-10)}{100}$$

$$= 8% //$$

14. Ans (a)

$$\frac{25}{100 + 25} \times 100$$

$$= 20% //$$

15. Ans (a)

$$\frac{40}{140} \times 100$$

$$= 28.57\% //$$

17. Ans (a)

$$30 - 20 + \frac{30 \times (-20)}{100}$$

$$= 10 + (-6) \\ = 4\% \text{ increase}$$

22. Ans (b)

$$SP = MP - 10\% \text{ of } MP$$

$$SP = 560 - 50 = 450$$

$$P = \frac{SP - CP}{CP} \times 100$$

$$8 = \frac{450 - x}{x} \times 100$$

$$108x = 45000 - x$$

$$x = \frac{45000}{108}$$

$$x = 416.67$$

$$x \approx 420 //$$

26. Ans (a)

$$P\% = \frac{20}{120} \times 100$$

$$= 16.67\% //$$

18. Ans (a)

$$25 - 20 + \frac{25 \times (-20)}{100}$$

$$5 - 5$$

$$= 0\% //$$

27. Ans (d)

$$\text{Total} = 3 + 2 = 5$$

$$\text{Boys \%} =$$

$$\frac{3}{5} \times 100$$

$$= 60\% //$$

19. Ans (d)

$$40 - 30 + \frac{40 \times (-30)}{100}$$

$$10 - 12 = -2\%$$

$$2\% \text{ decrease}$$

23. Ans (a)

$$CP = 100$$

$$P = \frac{20}{100} \times CP = 20$$

$$P\% \text{ on } SP =$$

$$\frac{P}{SP} \times 100 = \frac{20}{120} \times 100$$

$$= 16.67\% //$$

28. Ans (b)

$$P\% = \frac{250000 - 200000}{200000} \times 100$$

$$= \frac{50000}{200000} \times 100$$

$$= 25\% //$$

20. Ans (a)

$$20 - 10 + \frac{20 \times (-10)}{100}$$

$$10 - 2 = 8\%$$

$$8\% \text{ increase}$$

24. Ans (b)

$$\text{Discount} = \frac{1200 - 960}{1200} \times 100$$

$$\frac{240}{1200} \times 100$$

$$20\% //$$

21. Ans (b)

$$100\% + 25\%$$

$$= 125\%$$

25. Ans (c)

$$\text{Profit} = \frac{650 - 500}{500} \times 100$$

$$= \frac{150}{500} \times 100$$

$$= 30\% //$$

29. Ans ()

$$\text{Total votes} = x$$

$$\text{Difference} = 3600$$

$$(65\% - 35\%)x = 3600$$

$$30\% \text{ of } x = 3600$$

$$x = \frac{3600 \times 100}{30}$$

$$x = 12000 //$$

32. Ans (q)

$$\frac{30}{120} \times 100$$

$$= 16.67\%$$

35. Ans (q)

$$\frac{20}{100 + 20} \times 100$$

$$\frac{20}{120} \times 100$$

$$= 16.67\% //$$

38. Ans (c)

$$SP = CP - \left(\frac{20}{100} \times CP \right)$$

$$= 500 - \left(\frac{20}{100} \times 500 \right)$$

$$500 - 100 = 400 //$$

41. Ans (b)

$$\text{Salary} = x$$

$$\frac{40}{100} \times x = 18000$$

$$x = \frac{18000 \times 100}{40}$$

$$x = 45000$$

30. Ans (b)

$$\frac{30}{100 - 30} \times 100$$

$$= \frac{30}{70} \times 100$$

$$= 42.85\% //$$

33. Ans (c)

$$x = \frac{90 \times 100}{30} = 300$$

$$60\% = \frac{60}{100} \times 300$$

$$= 180 //$$

36. Ans (a)

$$20 - 10 + \frac{20 \times (-10)}{100}$$

$$= 10 - \frac{200}{100}$$

$$= 8 \text{ increase} //$$

39. Ans (b)

$$10 - 10 + \frac{10(-10)}{100}$$

$$= 0 - 1\%$$

$$= -1\%$$

$$= 1\% \text{ decrease} //$$

42. Ans (b)

$$30 - 30 + \frac{30(-30)}{100}$$

$$= 0 - 9$$

$$= 9\% \text{ decrease}$$

31. Ans (b)

$$50 - 50 + \frac{50(-50)}{100}$$

$$= 50 - 50 - 25$$

$$= -25\%$$

$$= 25\% \text{ decrease} //$$

34. Ans (c)

$$\frac{25}{100} \times x = 5000$$

$$x = \frac{5000 \times 100}{25}$$

$$x = 20,000 //$$

37. Ans (a)

$$CP = 100$$

$$MP = 125$$

$$SP(\text{discount}) =$$

$$125 - \left(\frac{20}{100} \times 125 \right)$$

$$= 125 - 25 =$$

$$SP = 100 //$$

No Profit, No Loss

40. Ans (b)

$$\frac{40}{100} \times x = 200 + 20$$

$$x = \frac{220 \times 100}{40}$$

$$x = 550 //$$

43. Ans (a)

$$P = 10000 \times \left(1 + \frac{10}{100}\right)^3$$

$$= 10000 \times (1.1)^3$$

$$= 10000 \times 1.331$$

$$= 13310 //$$

44. Ans (b)

$$\frac{15A}{100} = \frac{20B}{100}$$

$$15A = 20B$$

$$A:B = \frac{20}{15}$$

$$= 4:3$$

45. Ans (b)

$$SP = CP + (25\% \text{ of } CP)$$

$$= 800 + \left(\frac{25}{100} \times 800\right)$$

$$= 800 + 200$$

$$= 1000 //$$

46. Ans (b)

$$P\% = \frac{250 - 200}{200} \times 100$$

$$= \frac{50}{200} \times 100$$

$$= 25\% //$$

47. Ans (a)

$$CP = \frac{SP \times 100}{100 + P\%}$$

$$= \frac{720 \times 100}{120}$$

$$= 600 //$$

48. Ans (b)

$$SP = CP - (15\% \text{ of } CP)$$

$$= 500 - \left(\frac{15}{100} \times 500\right)$$

$$= 500 - 75$$

$$= 425 //$$

49. Ans (c)

$$SP = CP - (10\% \text{ of } CP)$$

$$= 1500 - \left(\frac{10}{100} \times 1500\right)$$

$$= 1500 - 150$$

$$= 1350 //$$

50. Ans (a)

$$CP = 100 \quad MP = 130$$

$$SP = 130 - \frac{10\% \text{ of } 130}{100}$$

$$= 130 - 13 = 117$$

$$P\% = \frac{117 - 100}{100} \times 100 = 17\%$$

$$= 17\%$$