1) $\frac{25}{100} \times 200$

$= 25 \times 2 = 50$

Ans :- b)

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

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

$= 200$

Ans :- c)

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

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

$= 200$

Ans :- c)

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

$= 1800/10$

$= 18$

Ans = c)

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

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

$= 300$

Ans :- c) 300

6)

diff $= 250 - 200 = 50$.

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

$x = 25$ (b)

7)

diff $= 50000 - 40000$

$= 10,000$

$x = \frac{10,000}{40,000} \times 100$

$= 25$

Ans : b

8)

diff :- $10000 - 8000$

$= 2,000$

$x = \frac{2000}{10000} \times 100$

$= 20$

Ans = c

9)

diff :- $500 - 400$

$= 100$

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

$= 20$

Ans :- c

10) SP :- 450, CP = 600

$P = CP - SP = 150$

Profit $= \frac{150}{CP} \times 100$

Ans :- c

$= \frac{150}{600} \times 100 = 25$

11) 30% of 400

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

40% of 300

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

∴ Ans = c

12) spend = 60%.

saved = 100 − 60 = 40%.

$\therefore \frac{2000}{40} \times 100 = 20{,}000$

Ans = c

13) A = 120%.

B = 100%.

~~A = B + 0.20B~~.

$A = 1.20B$, $B = \frac{1}{120} A$

$= \frac{100}{120} A = \frac{5}{6} A$.

$A - B = A - \frac{5}{6} A$

$A - B = \frac{1}{6} A$

$\therefore \text{per(\%) diff} = \frac{A-B}{A} \times 100$

$= \frac{1/6 A}{A} \times 100$

$= 100/6$

$= 16.667$.

∴ Ans = b

14) ~~Budget = 100~~ ~~Price~~ = 1.25P

Expense = P × Consumption

$C = 1.25 P$

$P = \frac{4}{5} C$

$\therefore \text{diff cost expens} = \frac{1 - \frac{4}{5}C}{C} \times 100$

$= \frac{5-4}{5} \times 100$

$= 1/5 \times 100$

$= 20\%$.

Ans = a

15) ~~$B = \frac{140}{100} A$~~ ~~$\therefore A = \frac{100}{140} B$~~ ~~$\therefore A = 5/7 B$~~

~~$A - B =$~~

~~$-A - B = A - 5/7$~~

16) $A = 1.40B$.

$\therefore B = \frac{100}{140} A$

$B = \frac{5}{7} A$

$\text{diff} = \frac{A-B}{A} \times 100$

$= \frac{A - 5/7 A}{A} \times 100$

$= \frac{2}{7} \times 100$

$= 28.57$

∴ Ans :- a

16) Price increase = $P + 0.20P = 1.20P$

Price decrease = $1.20P - 0.10(1.20P) = 1.20P - 0.12P$

$= 1.08P$

$\therefore$ Net price = $1.08P - P = 0.08P$.

$\therefore$ diff % $= \frac{0.08P}{P} \times 100 = \frac{8}{100} \times 100$

$= 8\%$ inc

$\therefore$ Ans: a

17) $PI = P + 0.30P = 1.30P$

$PD = 1.30P - 0.20(1.30P) = 1.30P - 0.26P$

$= 1.04P$

$\therefore$ Net (%) change $= 1.04P - P = 0.04P$

$\therefore$ % change $= \frac{0.04P}{P} \times 100$

$= \frac{4}{100} \times 100$

$= 4$

$= \frac{4}{100} \times 100 = 4$

$\therefore$ Ans = 9

18) Increased = $P + 0.25P = 1.25P$

Decreased = $1.25P - 0.20(1.25)P$

$= 1.25P - 0.25P = 1P$

$\therefore$ (+) change = $1P - 1P = 0$

$\therefore$ Net change $= \frac{0}{100} \times 100$

$= 0 \times 100$

$= 0$

$\therefore$ Ans = a

19) Increased = $P + 0.40 = 1.40P$.

decreased = $1.40P - (1.40P \times 0.30)$

$= 1.40P - 0.42P$

$= 0.98P$.

$\therefore$ final change $= \frac{0.98P - P}{P} \times 100$

$= (0.98 - 1) \times 100$

$= -0.02 \times 100$

$= \frac{-2}{100} \times 100 = -2$ (decreased)

$\therefore$ Ans = d

20) Increased = $P + 0.20P = 1.20P$

decreased = $1.20P - 0.10 \times 1.20P = 1.20P - 0.12P$

$= 1.08P$

$\therefore$ final change $= \frac{1.08P - P}{P} \times 100$

$= 0.08 \times 100$

$= \frac{8}{100} \times 100 = 8$

$\therefore$ Ans = 9

21) profit = 25%.

CP = 100 + Profit.

= 125%

$\therefore$ Selling prices = 125%.

$\therefore$ Ans = b

22) Market price = 500 of 10% dis

discount = 0.10 × 500.
= 50

SP = MP - DIS = 500 - 50 = 450.

SP = CP + profit

$SP = CP + \left(\frac{8}{100}\right) * CP$ (profit 8%.)

SP = 1.08 * CP

450 = 1.08 * CP

$CP = \frac{450 \times 100}{108}$

= 416 (app)

Ans :- b

23) ~~MP = 1200~~

Profit = 20% of CP

$\frac{CP}{SP} = \frac{1}{1.2} = \frac{10}{12}$

$\therefore$ % of SP = $\frac{20}{12} \times 10 = 16.67\%$

Ans :- a

24) MP = 1200

CP = MP - SP

= 1200 - 960

= 240

$\therefore$ % dis = $\frac{CP}{MP} \times 100 = \frac{240^{20}}{1200} \times 100 = 20\%$

$\therefore$ Ans :- b

25) MP = 500

SP = 650.

P = SP - CP = 650 - 500 = 150

$\% = \frac{P}{CP} \times 100 = \frac{150^{30}}{500} \times 100$

= 30%.

$\therefore$ Ans: C

26) A = 1.2B

$B = \frac{A}{1.2} = \frac{10}{12}A - \frac{5}{6}A$

$\% (B) = \frac{A - B}{A} \times 100$

$= \frac{A - \frac{5}{6}A}{A} \times 100$

$= \frac{\frac{1}{6}A}{A} \times 100$

= 100/6 = 16.67%

$\therefore$ Ans :- a

27) $\frac{B}{A} = \frac{3}{2}$

Total = 5

$\therefore B = 3/5$

% of boy: $\frac{3}{5} \times 100^{20}$

= 60%.

$\therefore$ Ans = b

28) diff = 250,000 - 2,00,000

= 50,000.

$\% = \frac{50,000}{2,00,000} \times 100 = 25\%$.

$\therefore$ b = 25%.

29). Total vote = 100%
get = 65%.
Noget = 100 − 65 = 35%.

∴ (65 − 35)% = 3000

$\frac{30}{100} N = 3000$

$N = \frac{3000 \times 100}{30}$

= 10,000.

Ans :- Not given

30)

reduce by 30%.
gained = 100 − 30 = 70%

% increased = $\frac{30}{70} \times 100 \quad \frac{300}{7} = 42.85$

31) Increased = 100 + 50 = 150P.

decreased = 1.50P − 0.50(1.50)P

= 1.50P − 0.75P

= 0.75P.

% chang = $\frac{1P - 0.75P}{P} \times 100$

= 0.25 × 100

= 25%.

∴ Ans :- b

32) A = 1.20B

$B = \frac{100A}{120} \quad \frac{5}{6} A = \frac{5}{6} A$

$B = \frac{5A}{6}$

$(\%) = \frac{A - B}{A} \times 100 = \frac{A - \frac{5}{6}A}{A} \times 100 = \frac{100}{6} = 16.67\%$

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

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

= 300

$\frac{60}{100} \times x = 90$

$x = \frac{90 \times 100}{60}$

$x = 150$

34) spend = 75%.

Not spend = 100 − 75 = 25%.

∴ $\frac{25}{100} \times x = 5000$

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

= 20,000

∴ Ans = c

35) Increased = 100 + 20 = 120%.

% diff = $\frac{20}{120} \times \frac{5}{100} = \frac{50}{3} = 16.67\%$

∴ Ans :- a

36) Increased = 100 + 20 = 120% = 1.2

decreased = 1.2P − 0.1 × 1.2P

= 1.2P − 0.12P

= 1.08P.

Net change = 1P − 1.08P = 0.08P

% change = $\frac{8}{100} \times 100$

= 8%

∴ Ans = a

37) MRP = 25% + CP (100%)

Dis = 20%

MRP = 125%

% = 20% = Back to 100%.

Ans = 10%

38) CP = ₹500

Loss = 20%

$\% = \frac{20}{100} \times 500 = 100$

∴ SP = 400.

∴ Ans :- C

39) ↑10% = 110%,

↓10% = 10% (110)

= 11%

∴ Net = 110 − 11 = 99%

∴ 1% ↓

Ans: B

40) 40% to pass

200 marks & fail by 20.

∴ 200 + 20 = 40%.

220 = 40%

? = 100%

100% = 550.

∴ B = 550

41) 20% + 30% + 10% = 60% spend

≈ ₹ 40% = 18,000

100% = 45,000.

∴ Ans :- B

42) ↑ 30% = 130%, ↓ 30% = (30) 130

= 39%.

∴ Net = 91% = 100 − 91 = 9

≈ 9% ↓

∴ B

43) 10% ↑ every year

100 × 3 → 110 × 3

10 → 4

10 → 11

10 → 4

1000 → 1331

10000 → 13310

Ans: A

44) B)

45) B)

46) B)

47) A)

48) B)

49) C)

50) A)