Assignment 1

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Q-1)

→ 25% of 200

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

Q-2)

→ $\frac{40}{100} \times x = 80$

$x = \frac{80 \times 10}{4}$

$x = 200$

Q. 3)

→ $\frac{75}{100} x = 150$

$x = 200$

Q. 4)

→ $\frac{15}{100} \times 1200 = 18$

Q-5)

→ $\frac{30}{100} \quad \frac{3}{10} = 90$

$x = 300$

Q. 6)

→ 200₹ to 250₹

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

Q-7)

→ 40000 to 50,000

$\frac{10000}{40000} \times 100 = 25\%$

Q.8Y
→ 10,000 to 8,000

$\frac{2000}{10000} \times 100 = 20\%$ decrease.

Q.9Y
→ 500 to 400

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

10)
→ CP = 600
SP = 450 loss % ?

$\frac{600-450}{600} = \frac{150}{600} \times 100 = 25\%$ loss

11)
→ $\frac{30}{100} \times 400$ $\frac{40}{100} \times 300$

$= 120$ $= 120$

Both are equal.

12)
→ spend 60% 40% = 8000

From option

$20,000 \times \frac{60}{100} = 12,000 + 8000$

$= 20,000$

→ 13) A B $\frac{100}{6} = 16.6\%$

6 5

14)
→ sugar → 125%

$\frac{25}{125} \times 100 = 20\%$

15)
→ A 140 B 100

$\frac{40}{140} \times 100 = 28.57\%$

16)
→ price P = 100
increase 20% total 120
then decrease by 10%

10%
= 8% change.

17) cost = 100
increase by 30 = 130
then decrease by 20% 26

104
= 4%

18)
→ 100 population
increase by 25% = 125
then decrease by 20%
resing = 125 - 25 = 100
0% change

19)
→ 100 → 140% → 1 yr
- 2% decrease

20)
→ if salary 100 → 120 then
decrease by 10 → 10%

8% increase

21)
→ P = 25% CP = 100
$\frac{25}{100} \times 100 \rightarrow 25\%$

22)
→ CP = 500
SP = $\frac{500 \times 96}{100} = 480$

CP = $\frac{480 \times 100}{120} = 416.6$

23)
→ $20\% = \frac{1}{5}$ $\frac{D}{6}$ $\frac{B}{5}$

$\frac{1}{6} \times 100 = 16.67\%$

24)
→ 1200 − 960 = 240

discount = $\frac{100 \times 240}{1200} = 20\%$

25)
CP = 500 SP = 650

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

247
→ $\frac{3}{8} \times 100 = 60\%$

257
→ $200000, \frac{200000}{40000} = \frac{80000}{200000} \times 100 = 25\%$

267
→ $0.65Y - 0.35Y = 3000$

$0.3Y = 3000$

$Y = \frac{3000}{0.3} = 10,000$

277
→ $A = \frac{120}{100} B \qquad B = \frac{1}{1.2} A \qquad \therefore 100 - 83.33 = 16.67$

$A = 1.2B \qquad B = 0.833A$

287
→ $80 - 80 + \frac{80 \times 25}{100} = \frac{0 - 2000}{100}$

$= 25\%$ decrease

297
→ B A

100 120%

337
→

347
→

33)
→ $\frac{300}{100} \times a = 90$ $\quad u = \frac{96 \times 16}{8}$ $\quad \therefore \frac{60,400}{100} = 180$

$\frac{3}{10} u = 90$ $\quad a = 300$

34)
→ $\frac{25}{100} + x + 500 = 0$

$5000 = x - \frac{3}{4}x \quad x = 20000$

35)
→ 16.67 %.

36
→ $20 - 10 + \frac{20 \times -10}{100} = 10 - \frac{200}{100}$

$= 8\%$ increase

37)
→ Profit → 0% percentage.

38)
→ $\frac{50}{100} \times 800 = 400$ (selling price)

39)
→ $10 - 10 + \frac{10 \times -10}{100}$

$= \frac{100}{10000} = 0.1$

40)

$\frac{40}{100} = 200$

$\frac{400}{100} m = 220$

$m = \frac{220 \times 10}{4}$

$m = 550$

41)

$\frac{20}{100} m + \frac{30}{100} m + \frac{10}{100} m + 18000 = m$

$20m + 30m + 10m = 18000 m$

$60m = 18000 m$

$m = \frac{18000 \times 10}{6}$

$m = 45000$

42)

$\frac{80 - 30}{100} \times 60 = 0 + \left(-\frac{50}{100}\right) = -50$ decrease

43)

Present 10,000

↓ 11000

↓ 12100

↓ 13310

44)

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

$\frac{3}{20} A = \frac{2}{10} B$

$\frac{A}{B} = \frac{4}{3}$

45)

45)
→ $SP = \frac{125}{100} \times 800 = 1000$

46)
→ P% $\frac{200-200}{200} \times 100 = \frac{50}{2} = 25\%$

47)
→ $CP = \frac{720 \times 100}{120} \times 600$

48)
→ $CP = \frac{SP \times 100}{100 + P\%}$ $SP = 625$

49)
→ $1800 = \frac{SP \times 100}{40}$

$SP = \frac{1800 \times 40}{100}$

$SP = 1800$

50)
$CP = 100$

$SP = 130 \cdot 13 = 117$ $\frac{1}{10} \times 730 = 13$

$= 117$

17%