

Aptitude Assignment 1

Q.1f 25% of 200

$$\Rightarrow \frac{25}{100} \times 200$$

B) = 50

Q.7f salary $\Rightarrow 40,000 \rightarrow 50,000$

$$40,000 \times \frac{50}{100} = 20,000$$

$$\therefore 25\% \Rightarrow 10,000$$

B) 80 25%

Q.2f 40% of x is 80

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

C) x = 200

Q.8f 10,000 \rightarrow 8000

$$10,000 \times \frac{20}{100} = 2,000$$

C) = 20%

Q.3f 75% of x is 150

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

B) x = 200

Q.9f 500 \rightarrow 400

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

C) = 20%

Q.4f 15% of 120

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

C) = 18

Q.10f CP = 600 SP = 450

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

C) = 25%

Q.5f 30% of x is 90

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

C) x = 300

Q.11f 30% of 400 or 40% of 300

greater?

$$\Rightarrow \frac{30}{100} \times 400, \quad \frac{40}{100} \times 300$$

$$120 = 120$$

Q.6f Price of product $\Rightarrow 200 \rightarrow 250$

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

B) x = 25%

C)

Q.12f 40% of x = 8000

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

c) x = 20,000

Q.16f 100

$$\downarrow +10\%$$

$$120$$

$$\downarrow -10\%$$

A) 108

change = 8%

~~Q.13f A = 20% of B~~
~~$$= \frac{20}{100} \times 100 + 100$$~~

~~A = 120~~

Q.17f 100

$$\downarrow +30\%$$

$$130$$

$$\downarrow -20\%$$

A) 104

change = 4%

Q.13f B = 100 A = 120

$$\text{change} = \frac{20}{120} \times 100$$

B) = 16.67%

Q.18f 100

$$\downarrow +25\%$$

$$125$$

A) 100

change = 0%

Q.14f OG price = 100

new = 125

$$\text{exp} = \frac{100 \times 100}{125}$$

= 80%

A) change = 20%

Q.19f 100

$$\downarrow +10\%$$

$$140$$

$$\downarrow -30\%$$

A) 98

change = 2%

Q.15f B = 100 A = 140

$$\text{change} = \frac{40}{140} \times 100$$

B) = 28.57%

Q.20f 100

$$\downarrow +20\%$$

$$120$$

$$\downarrow -10\%$$

A) 108

change = 8% increase

Q.21f $SP = CP + \frac{25}{100} \times CP$

B) change = 125%

Q.22 SP = 450

P = SP - CP

SP = CP + P_{0.08}

450 = CP + 0.08 CP

CP = 416.67

B) ≈ 420

Q.23 P = 20% CP

CP = 100 SP = 120 P = 20

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

A) = 16.67%

Q.24 SP = 960

MP = 1200

Disc = 240

% disc = $\frac{240}{1200} \times 100$

B) = 20%

Q.25 CP = 500

SP = 650

P = 150

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

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

C) = 30%

Q.26 B = 100 A = 120

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

A) = 16.67%

Q.27 B : G = 3 : 2

B + G = 5

B% = $\frac{3}{5} \times 100$

D) = 60%

Q.28 2,00,000 ^{2 yrs} → 2,50,000

% change = $\frac{50,000}{2,50,000} \times 100$

B) = 25%

Q.29 A = 65 B = 35

change x x = 3000

x = $\frac{3000}{100} \times 100$

x = 10,000

Q.30 100

↓ -30%
70

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

B) = 42.85%

Q.31 100
↓ +50%
150
↓ -50%
75

B) = 25% decrease

Q.32 B = 100 A = 120
% = $\frac{20}{120} \times 100$

A) = 16.67%

Q.33 30% of x = 90
 $\Rightarrow \frac{30}{100} \times x = 90$

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

x = 300

60% of x

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

C) = 180

Q.34 25% \Rightarrow 5000

25% x 3

= 15000

C) Total = 20000

Q.35 100
↓ +20%
120

P1 = 100 C1 = 100 E1 = 10000
P2 = 120 C2 = x E2 = 10000

120 x C2 = 10000

C2 = 83.33

so diff = 100 - 83.33
A) = 16.67%

Q.36 100
↓ +20% % change

120 = $\frac{8}{100} \times 100$
↓ -10%

A) 108 = 8%

Q.37 MP = 25% CP + CP

Disc = 20%

CP = 100 MP = 125

if disc = 20%

MP 125

↓ -20%

100

A) ∴ Profit = 0.1 = 10%

Q.38 CP = 500

L = 20%

L = CP - SP

SP = CP - L

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

c) SP = 400

Q.39 100

↓ +10% % change =

110 = $\frac{10}{100} \times 100$

↓ -10%

c) 101 = 1% increase

Q.40 40% of x is (200 + 20)

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

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

B) x = 550

Q.41 R = 20%

F = 30%

T = 10%

exp = 60% of x

40% = saving remaining

40% of x = 18000

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

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

B) = 45000

Q.42 100

↓ +30% % change

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

↓ -30%

91 = 91%

B) = 9% decrease

Q.43 10,000

+10% ↓ 1 yr

11000

+10% ↓ 1 yr

12100

+10% ↓ 1 yr

13310

A) 13310

Q.44 15% A = 20% B

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

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

B) A : B = 4 : 3

Q.45 CP = 800 P = 25% CP

P = SP - CP

SP = P + CP

= $\frac{25}{100} \times 800 + 800$

= 200 + 800

B) = 1000

Q.466 CP = 200 SP = 250

$P = SP - CP$

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

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

B) = ~~25%~~ 25%

Q.476 SP = 720

$P\% = 20\%$

$P = SP - CP$

$SP = P + CP$

$= \frac{20}{100} CP + CP$

A) SP = 1.2 CP

~~CP = 720~~ CP = $\frac{720}{1.2}$

= 600

Q.486 L = 15%

CP = 500

$L\% = CP - SP$

$SP = CP - L$

$= 500 - \frac{15}{100} \times 500$

D) = 475

Q.496 CP = 1500

~~L = 15%~~ L% = 10%

$SP = CP - L$

$= 1500 - \frac{10}{100} \times 1500$

C) = 1350

Q.506 MP = $\frac{30}{100} CP + CP$

discount = 10%

~~MP~~ CP = 100

MP = 130

disc = 10%

= ~~130~~ 130 - 13

= 117

A) \therefore profit = 17%