ALL BRANCH (Hinglish)

General Aptitude

Quantitative Aptitude

DPP 02 Discussion Notes

Profit & Loss

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MCQ

One-fifth of the cost price, one-seventh of the marked price and one-sixth of the selling price are all equal. What is the gain or loss to the trader?

(A) 20% gain

(B) $16\frac{2}{3}\%$ loss

(C) $16\frac{2}{7}\%$ gain

(D) 10% loss

$\frac{1}{5}$ C.P $= \frac{1}{6}$ S.P

$\frac{S.P}{C.P} = \frac{6}{5} = 1.2$

20% P

MCQ

A shopkeeper buys toffees at rate of 40 for Rs. 5 and sells at rate of 50 for Rs. 10. The profit % is

A 60

B 50

C 25

D 30

$$C.P = \frac{5}{40} = \frac{1}{8}$$

$$S.P = \frac{10}{50} = \frac{1}{5}$$

$$\frac{SP}{CP} = \frac{1}{5} \times \frac{8}{1} = \frac{8}{5} = 1.6$$

MCQ

A shopkeeper had calculated profit % on SP and announced it as 40%. His actual profit % is

A 60

B 66.5

C 66.66

D 66.33

$SP = 100$

$P = 40$

$CP = 100 - 40 = 60$

$\frac{SP}{CP} = \frac{100}{60} = \frac{5}{3} = 1.\overline{6}$

66.66 % P

MCQ

A radio was sold for 18% profit. If it were sold for Rs. 30 more a profit of 20% would have gained. Find the CP.

A 1000

B 1200

C 1500

D 1800

$$\frac{SP}{CP} = 1.18$$

$$\Rightarrow SP = 1.18\,CP \quad -(1)$$

$$\frac{SP+30}{CP} = 1.2 \quad -(2)$$

$$1.18\,CP + 30 = 1.2\,CP$$

$$0.02\,CP = 30$$

$$CP = \frac{30}{0.02} = 1500$$

1500

MCQ

A vendor sells lemons at 5 for a rupee gaining 40%. How many did he buy for a rupee?

$C.P = \frac{1}{x}$ $S.P = \frac{1}{5}$

A 7

B 12

C 6

D 8

$$\frac{S.P}{C.P} = \frac{1}{5} \times \frac{x}{1} = 1.4$$

$$x = 7$$

MCQ

Saleem lost 20% by selling a bicycle for ₹1536. What percent shall he gain by selling it for ₹2040?

A 10%

B 12.5%

C 9%

D 6.25%

$\frac{1536}{C.P} = 0.8$

$C.P = \frac{1536}{0.8} = 1920$

$S.P = 2040$

$\frac{S.P}{C.P} = \frac{2040}{1920} = 1.0625$

$= 1.0625$

$0.0625 \times 100 = 6.25\%$

MCQ

A cloth merchant says that due to the slump in the market, he sells the cloth at 10% loss. But he uses a false meter scale and gains 20%. How much less he measures for a meter?

(A) 74 cm

(B) 75 cm

(C) 36 cm

(D) 25 cm

$\frac{SP}{CP} = 0.9 \times \frac{100}{x} = 1.2$

$\Rightarrow \frac{90}{1.2} = x$

$\Rightarrow \frac{900}{12} = x$

$x = \frac{225}{3}$

$= 75$

$100 - 75 = 25$ cm

MCQ

A fruit vendor buys 10 bananas for ₹14 and sells them at 12 for ₹15, the find his profit or loss percentage.

A 12.5% P

B 15% L

C 6.3% L

D 10.7% L

$$C.P = \frac{14}{10} = 1.4 = \frac{7}{5}$$

$$S.P = \frac{15}{12} = \frac{5}{4}$$

$$\frac{S.P}{C.P} = \frac{5}{4} \times \frac{5}{7} = \frac{25}{28} = 0.892$$

$\rightarrow 0.108$

10.8% loss

1.000
0.892
108

MCQ

100 apples are bought at ₹350 and sold at the rate of ₹48 per dozen. What is the profit% or loss%?

A. 14.28% P
B. 12.5% P
C. 16.8% L
D. No P no L

$$C.P = \frac{350}{100} = 3.5$$

$$S.P = \frac{48}{12} = 4$$

$$\frac{S.P}{C.P} = \frac{4}{3.5} = \frac{40}{35} = \frac{8}{7} = 1.1428$$

14.28% P

.1428

MCQ

How much percent above the cost price should a shopkeeper mark his goods so that after allowing a discount of 25% on the marked price, he gains 20%?

A 75%

B 60%

C 44%

D 50%

$M.P = \frac{100}{75} C.P$

$\frac{S.P}{C.P} = 1.2 \Rightarrow S.P = 1.2\, C.P$

$S.P = 0.75\, M.P$

$M.P = 1.6\, C.P$

$1.2\, C.P = 0.75\, M.P$

$\frac{1.2}{0.75} C.P = M.P$

Thank You!

GW Soldiers