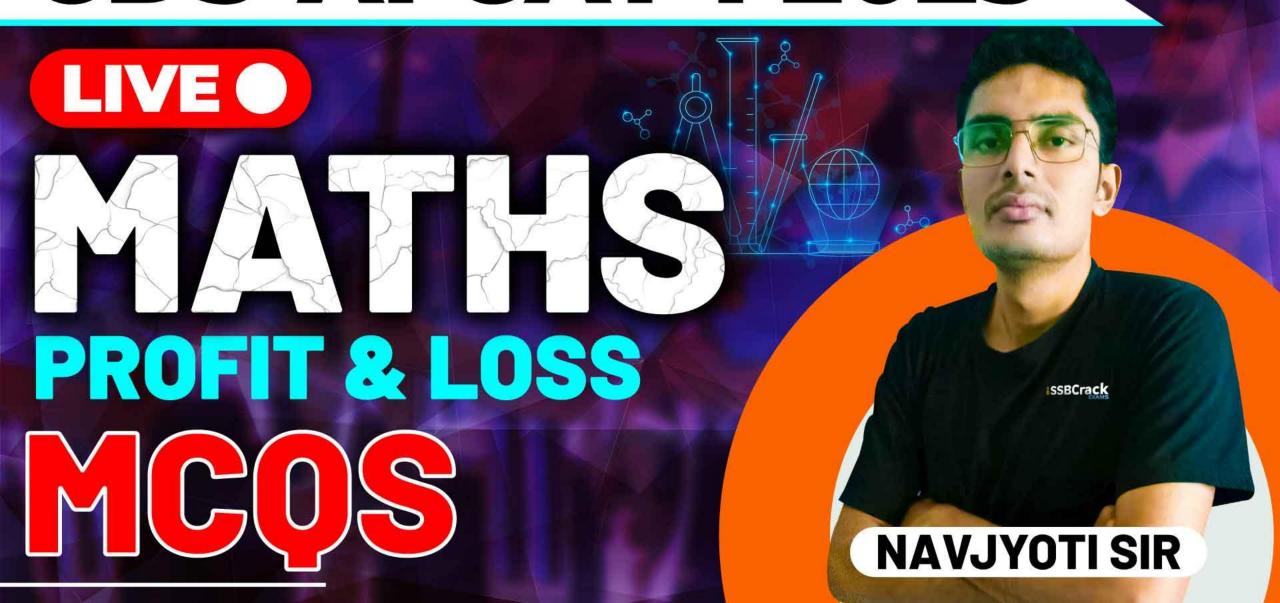
CDS-AFCAT 1 2025







22 Jan 2025 Live Classes Schedule

9:00AM 22 JANUARY 2025 DAILY DEFENCE UPDATES DIVYANSHU SIR

10:00AM - 22 JANUARY 2025 DAILY CURRENT AFFAIRS RUBY MA'AM

SSB INTERVIEW LIVE CLASSES

9:30AM - OVERVIEW OF GPE & PRACTICE ANURADHA MA'AM

AFCAT 1 2025 LIVE CLASSES

12:30PM REASONING - VERBAL CLASSIFICATION RUBY MA'AM

3:00PM STATIC GK - SCIENCE & TECHNOLOGY DIVYANSHU SIR

4:30PM ENGLISH - SPOTTING ERRORS - CLASS 3 ANURADHA MA'AM

5:30PM MATHS - PROFIT & LOSS NAVJYOTI SIR

NDA 1 2025 LIVE CLASSES

10:00AM MATHS - SETS, RELATION AND FUNCTION - CLASS 2 NAVJYOTI SIR

11:30AM ANCIENT HISTORY - CLASS 2 RUBY MA'AM

1:00PM PHYSICS - REFLECTION OF LIGHT NAVJYOTI SIR

4:30PM - ENGLISH - SPOTTING ERRORS - CLASS 3 ANURADHA MA'AM

CDS 1 2025 LIVE CLASSES

11:30AM ANCIENT HISTORY - CLASS 2 RUBY MA'AM

1:00PM PHYSICS - REFLECTION OF LIGHT NAVJYOTI SIR

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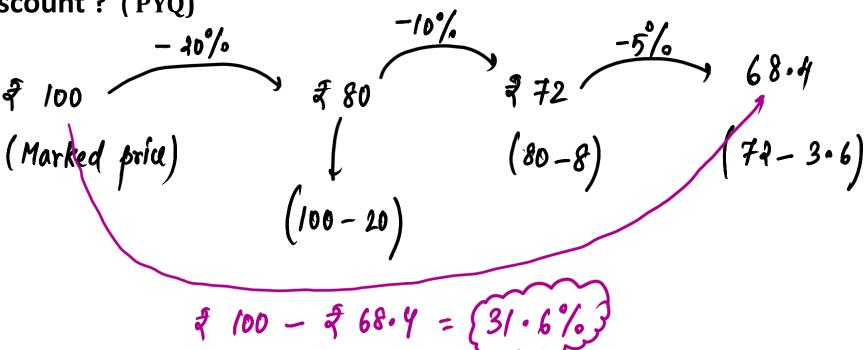




A trader gives successive discounts of 20%, 10% and 5% respectively.

What is his overall discount? (PYQ)

- A. 30 %
- B. 31.6%
- C. 32.8%
- D. 35%





A trader gives successive discounts of 20%, 10% and 5% respectively. What is his overall discount? (PYQ)

- A. 30 %
- B. 31.6%
- C. 32.8%
- D. 35%



Q) A shopkeeper sells his articles at their cost price but uses a faulty balance which reads 1000g for 800g. What is his actual profit percentage?

- (a) 25%
- (c) 40%

$$\frac{1000 - 800}{800} \times 100 =$$

$$\frac{1}{y} \times 100 = \left\{25\%\right\}$$



Q) A shopkeeper sells his articles at their cost price but uses a faulty balance which reads 1000g for 800g. What is his actual profit percentage?

(a) 25%

(b) 20%

(c) 40%

(d) 30%

Ans: (a)



- Q) Two lots of onions with equal quantity, one costing ₹ 10 per kg and the other costing ₹15 per kg, are mixed together and whole lot is sold at ₹ 15 per kg. What is the profit or loss?

 - (a) 10% loss (b) 10% profit
 - (c) 20% profit (d) 20% loss

Let each lot contain
$$x \ kg \ of \ onion$$
.

Of = $lox + 15x = 25x$

$$SP > CP \Rightarrow Profit$$

$$SP = 15(x+x) = 30x$$

$$9' = \frac{SP - CP}{CP} \times 100 = \frac{5x}{25x} \times 100 = \frac{1}{5} \times 100 = 20\% \ Profit$$



Q) Two lots of onions with equal quantity, one costing ₹ 10 per kg and the other costing ₹15 per kg, are mixed together and whole lot is sold at ₹ 15 per kg. What is the profit or loss?

(a) 10% loss

(b) 10% profit

(c) 20% profit

(d) 20% loss

Ans: (c)



Q) A milk vendor bought 28 l of milk at the cost of \ge 8.50 per l. After adding some water, he sold the mixture at the same price. If he gains 12.5%, how much water did he add?

(a) 5.5 *l*

(c) 3.5 l

$$SP = (28+2)8.50$$

$$Profit \% = \frac{SP - CP}{CP} \times 100 = \frac{2 \times 8.50}{28 \times 8.50} \times 100$$

$$12.5 = \frac{2}{28} \times 100 \Rightarrow \chi = \frac{0.5}{100} \times 100$$

$$12.5 = \frac{\alpha}{28} \times 100$$

$$\chi = \frac{0.5}{100 \, \text{M}} = \frac{3.5 \, \text{L}}{3.5 \, \text{L}}$$



Q) A milk vendor bought 28 l of milk at the cost of \ge 8.50 per l. After adding some water, he sold the mixture at the same price. If he gains 12.5%, how much water did he add?

(a) 5.5 *l*

(b) 4.5 *l*

(c) 3.5 l

(d) 2.5 l

Ans: (c)



cost of 1 chair = 74

Q) A man buys 4 tables and 5 chairs for ₹ 1000. If he sells the tables at 10% profit and chairs 20% profit, he earns a profit of ₹ 120. What is the cost of one table?

$$CP = \frac{4x}{5} + 5y = 1000 - (1)$$

$$SP = 4x \left(1 + \frac{10}{100}\right) + 5y \left(1 + \frac{20}{100}\right)$$

$$= \frac{44}{10}x + 6y = \frac{23}{5}x + 6y = \frac{23x + 30y}{5}$$

$$= \frac{44}{10}x + 6y = \frac{23}{5}x + 6y = \frac{23x + 30y}{5}$$

$$= \frac{20}{5}x + \frac{20}{5}x$$

$$4x + 5y = 1000$$

$$4x + 5y = 600$$

$$(-) (-) (-)$$

$$2x = 400$$



Q) A man buys 4 tables and 5 chairs for ₹ 1000. If he sells the tables at 10% profit and chairs 20% profit, he earns a profit of ₹ 120. What is the cost of one table?

(a) ₹200

(b) ₹220

(c) ₹240

(d) ₹260

Ans: (a)

The cost price of 100 mangoes is equal to the selling price of 80 mangoes. What is the profit percentage ? (PYQ - 2021)

$$\frac{CP}{SP} \left(\text{for 1 mange} \right) = \frac{80}{h0} \times SP \text{ of 1 mange}$$

$$\frac{+45}{5}$$
 difference =)

(profit)

The cost price of 100 mangoes is equal to the selling price of 80 mangoes. What is the profit percentage ? (PYQ - 2021)

- A. 16 %
- B. 20 %
- C. 24 %
- **D.** 25%



Q) A trader marked a watch 40% above the cost price and then gave a discount of 10%. He made a net profit of ₹ 468 after paying a tax of 10% on the gross profit. What is the cost price of the watch?

$$MP = CP \left(1 + \frac{40}{100} \right) = \frac{2}{5}CP$$

$$SP = \frac{2}{5}CP \left(1 - \frac{10}{100} \right) = \frac{2}{5}X\frac{9}{10}CP = \frac{63}{50}CP$$

Gross profit =
$$SP - CP$$

$$= \frac{63}{50} CP - CP = \frac{13}{50} CP$$

$$\frac{13}{50} CP \left(1 - \frac{10}{100}\right) = 468$$

$$CP = \frac{364}{488 \times 10 \times 50} = 2000$$

$$A \times 18$$



Q) A trader marked a watch 40% above the cost price and then gave a discount of 10%. He made a net profit of ₹ 468 after paying a tax of 10% on the gross profit. What is the cost price of the watch?

(a) ₹1200

(b) ₹1800

(c) ₹2000

(d) ₹2340

Ans: (c)



Q)One saree was purchased for ₹ 564 after getting a discount of 6% and another saree was purchased for ₹ 396 after getting a discount of 1%. Taking both the items as a single transaction, what is the percentage of discount?

(a) 3.5

(c) 7

(d) 7.5

Total discounted price (D) =
$$7.564 + 7.396 = 960$$

$$MP(1-6) = 564$$

$$MP_{2} = 346 \times 100$$

$$999$$

$$MP_{3} = 564 \times 100 = 600$$

$$2400$$

$$\frac{Discount}{MP} \times 100$$

$$1000 - 960 \times 100 = 4\%$$

$$1000$$



Q)One saree was purchased for ₹ 564 after getting a discount of 6% and another saree was purchased for ₹ 396 after getting a discount of 1%. Taking both the items as a single transaction, what is the percentage of discount?

(a) 3.5

(b) 4

(c) 7

(d) 7.5

Ans: (b)



Q) A cloth merchant buys cloth from a weaver and cheats him by using a scale which is 10 cm longer than a normal metre scale. He claims to sell cloth at the cost price to his customers, but while selling uses a scale which is 10 cm shorter than a normal metre scale. What is his gains?

(a) 20%

(b) 21%

(c) $22\frac{2}{9}\%$

(d) $23\frac{1}{3}\%$





Q)A cloth merchant buys cloth from a weaver and cheats him by using a scale which is 10 cm longer than a normal metre scale. He claims to sell cloth at the cost price to his customers, but while selling uses a scale which is 10 cm shorter than a normal metre scale. What is his gains?

(a) 20%

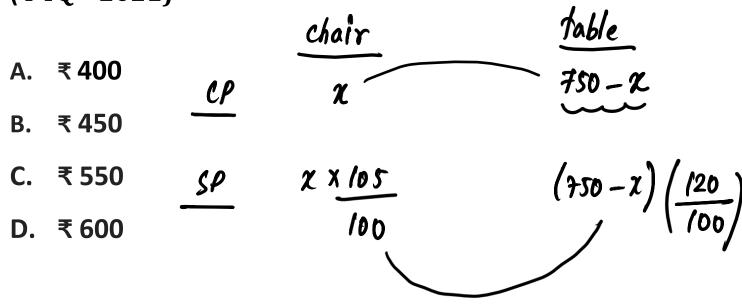
(b) 21%

(c) $22\frac{2}{9}\%$

(d) $23\frac{1}{3}\%$

Ans: (c)

A person bought a chair and a table for ₹ 750. He sold the chair at a gain of 5% and the table at a gain of 20%. He gained 16% on the whole. What is original cost of table ? (PYQ – 2021)



A person bought a chair and a table for ₹ 750. He sold the chair at a gain of 5% and the table at a gain of 20%. He gained 16% on the whole. What is original cost of table ? (PYQ – 2021)

- A. ₹400
- B. ₹450
- C. ₹550
- D. ₹600



Q)By giving 25% discount a trader earns 25% profit. If he sells the item at 10% discount, what is his profit?

(a) 10%

(b) 40%

(c) 45%

(d) 50%



Q)By giving 25% discount a trader earns 25% profit. If he sells the item at 10% discount, what is his profit?

(a) 10%

(b) 40%

(c) 45%

(d) 50%

Ans: (d)

X sells his goods 25% cheaper than Y and 25% dearer than Z. How much percentage is Z's good s cheaper than Y? (PYQ – 2021)

- A. (100/3) %
- B. 40 %
- C. 50 %
- D. (200/3) %

X sells his goods 25% cheaper than Y and 25% dearer than Z. How much percentage is Z's good s cheaper than Y? (PYQ – 2021)

- A. (100/3) %
- B. 40 %
- C. 50 %
- D. (200/3) %

A trader sells two computers at the same price, making a profit of 30 % on one and a loss of 30 % on the other. What is the net loss or profit % on the transaction ? (PYQ – 2019)

- A. 6 % loss
- B. 6 % gain
- C. 9 % loss
- D. 9 % gain

A trader sells two computers at the same price, making a profit of 30 % on one and a loss of 30 % on the other. What is the net loss or profit % on the transaction ? (PYQ-2019)

- A. 6 % loss
- B. 6 % gain
- C. 9 % loss
- D. 9 % gain

A person sells two items each at ₹ 990 , making a profit of 30 % on one and a loss of 30 % on the other. What is the combined % of profit or loss for the two items ? (PYQ – 2019)

- A. 1 % loss
- B. 1% profit
- C. No Profit No Loss
- D. 0.5% Profit

A person sells two items each at ₹ 990 , making a profit of 30 % on one and a loss of 30 % on the other. What is the combined % of profit or loss for the two items ? (PYQ – 2019)

- A. 1 % loss
- B. 1% profit
- C. No Profit No Loss
- D. 0.5% Profit



Q) A man bought 500 metres of electronic wire at 50 paise per metre. He sold 50% of it at a profit of 5%. At what percent should he sell the remainder so as to gain 10% on the whole transaction?

(a) 13% (b) 12.5% (c) 15% (d)

20%



Q) A man bought 500 metres of electronic wire at 50 paise per metre. He sold 50% of it at a profit of 5%. At what percent should he sell the remainder so as to gain 10% on the whole transaction?

(a) 13% (b) 12.5% (c) 15% (d)

20%

Ans: (c)



Q) A shopkeeper gets a loss of 28 (4/7)% on CP, find percentage loss on SP.

(a) 30%

(b) $\frac{200\%}{3}$

(c) 40%

(d) None of these



Q) A shopkeeper gets a loss of 28 (4/7)% on CP, find percentage loss on SP.

(a) 30%

(b) $\frac{200\%}{3}$

(c) 40%

(d) None of these

Ans: (c)



Q) Five kg of butter was bought by a shopkeeper for ₹ 300. One kg becomes unsaleable. He sells the remaining in such a way that on the whole he incurs a loss of 10%. At what price per kg was the butter sold?

(a) ₹67.50 (b) ₹52.50 (c) ₹60 (d) ₹72.50



Q) Five kg of butter was bought by a shopkeeper for ₹ 300. One kg becomes unsaleable. He sells the remaining in such a way that on the whole he incurs a loss of 10%. At what price per kg was the butter sold?

(a) ₹67.50 (b) ₹52.50 (c) ₹60 (d) ₹72.50

Ans: (a)



Q) A shopkeeper allows 10% discount on goods when he sells without credit. Cost price of his goods is 80% of his selling price. If he sells his goods by cash, then his profit is

(a) 50% (b) 70% (c) 25% (d) 40%



Q) A shopkeeper allows 10% discount on goods when he sells without credit. Cost price of his goods is 80% of his selling price. If he sells his goods by cash, then his profit is

(a) 50%

(b) 70% (c) 25% (d) 40%

Ans: (c)



Q) A dealer of scientific instruments allows 20% discount on the marked price of the instruments and still makes a profit of 25%. If his gain over the sale of an instrument is ₹ 150, find the marked price of the instrument.

(a) ₹938.50

(b) ₹940

(c) ₹938

(d) ₹937.50



Q) A dealer of scientific instruments allows 20% discount on the marked price of the instruments and still makes a profit of 25%. If his gain over the sale of an instrument is ₹ 150, find the marked price of the instrument.

(a) ₹938.50

(b) ₹940

(c) ₹938

(d) ₹937.50

Ans: (a)



Q)A shopkeeper buys a product of ₹ 150 per kg. 15% of product was damaged. At what price (per kg) should he sell the remaining so as to earn a profit of 20%?

(a)
$$\ge 205 \frac{13}{17}$$

(b)
$$\stackrel{?}{=} 207 \frac{13}{17}$$

(c)
$$\not\equiv 209 \frac{13}{17}$$

(d)
$$\stackrel{?}{=} 211 \frac{13}{17}$$



Q)A shopkeeper buys a product of ₹ 150 per kg. 15% of product was damaged. At what price (per kg) should he sell the remaining so as to earn a profit of 20%?

(a)
$$₹205 \frac{13}{17}$$

(b)
$$\stackrel{?}{=} 207 \frac{13}{17}$$

(c)
$$₹209 \frac{13}{17}$$

(d)
$$\stackrel{?}{=} 211 \frac{13}{17}$$



Q) The price of a jewel, passing through three hands, rises on the whole by 65%. If the first and the second sellers earned 20% and 25% profit respectively, find the percentage profit earned by the third seller.

(a) 20%

(b) 10%

(c) 25%

(d) No gain or loss



Q) The price of a jewel, passing through three hands, rises on the whole by 65%. If the first and the second sellers earned 20% and 25% profit respectively, find the percentage profit earned by the third seller.

(a) 20%

(b) 10%

(c) 25%

(d) No gain or loss

Ans: (b)



- **Q)** A sells an article which costs him ₹ 400 to B at a profit of 20%. B then sells it to C, making a profit of 10% on the price he paid to A. How much does C pay to B?
- (a) $\not\in 472$ (b) $\not\in 476$ (c) $\not\in 528$ (d) $\not\in 532$



- **Q)** A sells an article which costs him ₹ 400 to B at a profit of 20%. B then sells it to C, making a profit of 10% on the price he paid to A. How much does C pay to B?

- (a) $\not\in 472$ (b) $\not\in 476$ (c) $\not\in 528$ (d) $\not\in 532$

Ans: (c)



- **Q)** An article is sold at a certain price. If it is sold at $33\frac{1}{3}\%$ of this price, there is a loss of $33\frac{1}{3}\%$. What is the percentage profit when it is sold at 60% of the original selling price?

- (a) 20 (b) 30 (c) $33\frac{1}{3}$ (d) $17\frac{1}{3}$



- Q) An article is sold at a certain price. If it is sold at $33\frac{1}{3}\%$ of this price, there is a loss of $33\frac{1}{3}\%$. What is the percentage profit when it is sold at 60% of the original selling price?
- (a) 20 (b) 30 (c) $33\frac{1}{3}$ (d) $17\frac{1}{3}$

Ans: (a)

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