# CDS-AFCAT 1 2025







### 30 Sep 2024 Live Classes Schedule

8:00AM SEPTEMBER 2024 MONTHLY CURRENT AFFAIRS

RUBY MA'AM

10:00 AM

SEPTEMBER 2024 MONTHLY DEFENCE UPDATES

**DIVYANSHU SIR** 

#### NDA 1 2025 LIVE CLASSES

GK - WORLD GEOGRAPHY

**RUBY MA'AM** 

1:00PM

11:30AM

BIOLOGY - COMMON EPIDEMICS

SHIVANGI MA'AM

4:00PM

MATHS - LOGARITHMS - CLASS 1

NAVJYOTI SIR

5:30PM

**ENGLISH - WORD CLASSES - CLASS 1** 

ANURADHA MA'AM

#### CDS 1 2025 LIVE CLASSES

11:30AM

GK - WORLD GEOGRAPHY

RUBY MA'AM

1:00PM

**BIOLOGY - COMMON EPIDEMICS** 

SHIVANGI MA'AM

2:30PM

MATHS - PROFIT & LOSS - CLASS 3

NAVJYOTI SIR

5:30PM

**ENGLISH - WORD CLASSES - CLASS 1** 

ANURADHA MA'AM

#### AFCAT 1 2025 LIVE CLASSES

(10:00AM)

**REASONING - FIGURE CLASSIFICATION** 

**RUBY MA'AM** 

2:30PM

MATHS - PROFIT & LOSS - CLASS 3

**NAVJYOTI SIR** 

4:00PM

STATIC GK - BOOKS & AUTHORS

**DIVYANSHU SIR** 

5:30PM

NGLISH - WORD CLASSES - CLASS 1

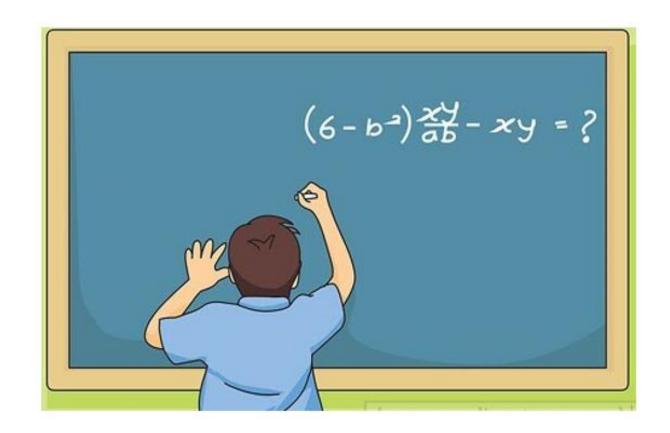
ANURADHA MA'AM

EXAMS



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A shopkeeper marks his goods 30% above the cost price. If he allows a discount of 15% on the mark price. Then his profit or loss percent is?

$$\frac{130}{100} = \frac{100 + p\%}{100 - d\%}$$

$$\frac{130}{100} = \frac{100 + p}{85}$$

$$\frac{130 \times 85}{100} - 100 = p$$

$$\frac{MP}{cP} = \frac{130}{100}$$

$$\frac{MP}{cP} = \frac{130}{100}$$

$$\frac{21 - 200}{2} = P$$

$$\frac{21}{2} = P$$

$$(P^{\circ}/. = 10.5\%)$$

$$\frac{+r\%}{o}, MP - \frac{-d\%}{o}, SP$$

$$+ve - profit$$

$$\left(r - \frac{(100-d)}{100} - d\right)\%$$

$$-ve - loss$$

The MP of an article is fixed in such a way that after allowing a discount of 20% a profit of

30% is obtained. Then mark-up percent is?

$$\frac{MP}{CP} = \frac{100 + p\%}{100 - d\%}$$

$$= \frac{MP}{CP} = \frac{100 + 30}{100 - 30}$$

$$\frac{MP}{CP} = \frac{130}{80} \qquad \frac{MP - CP}{CP} = \frac{130 - 80}{80} = \frac{5}{8}$$

$$= \frac{62.5\%}{80}$$

# A trader gives successive discounts of 20%, 10% and 5% respectively. What is his overall

## **discount?** (PYQ - 2021)

$$\left[ \left( a+b+c \right) - \underbrace{\left( ab+bc+ca \right)}_{/00} + \underbrace{abc}_{10000} \right] \%$$

$$\int \frac{35}{100} - \frac{350}{10000} + \frac{1000}{10000} \right) \%$$

$$= 35 - 3.5 + 0.1$$

$$= 35 - 3.4$$

$$= 31.6\%$$

(OR) 
$$20\%$$
  $10\%$   $5\%$   $5\%$   $100$   $\frac{-20\%}{2}$   $80$   $\frac{-10\%}{2}$   $(80-8)$   $\frac{(3.2 = 3.6)}{2}$   $\frac{(3.2 = 3.$ 

A trader gives successive discounts of 20%, 10% and 5% respectively. What is his overall discount? (PYQ - 2021)

- 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%

(b) 20%

(c) 40%

(d) 30%



**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%

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

$$\frac{200}{800} \times 100 = 25\%$$

**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 
$$x$$
 kg of onions be quantify for both parts.  
 $CP = 10x + 15x = 25x$   
 $SP > CP \rightarrow Profit$   
 $SP > 15(2x) = 30x$   
 $SP - CP \times 100 = \frac{5x}{25x} \times 100 = 20\%$ 



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?

$$-\varphi = 28 \times 8.5 l$$

$$SP = (28+2) \times 8.5 l$$

x litres of water is added,

- (a) 5.5 l
- (c) 3.5 l

- (b) 4.5 *l*
- (d) 2.5 l

$$12.5 = \frac{(48+x) \cdot 8.5 - 28x \cdot 8.5}{28.7 \cdot 8.5} \times 100$$

$$12.5 = \frac{2 \times 8.5}{20.14.5} \times 100 \qquad \frac{28 \times 12.5}{100} = 2 \qquad 2 = \frac{28}{8} = 3.5 \text{ lifter}$$

$$12.5 = \frac{28 \times 8.5}{28 \times 8.5} \times 100$$

$$\frac{38 \times 12.5}{8} = 2$$

$$2 = \frac{38}{8} \times 3.5 \text{ lifred}$$



Q) A milk vendor bought 28 *l* of milk at the cost of ₹ 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)** 



Q) Anu sold an article for ₹480 at some profit. Had she sold it for ₹400, then there would have been a loss equal to onethird of the initial profit. What was the cost price of the

article?
(a) 
$$\not\equiv 450$$
 (b)  $\not\equiv 430$  (c)  $\not\equiv 425$  (d)  $\not\equiv 420$ 

$$(\mathcal{CP}) \qquad \qquad \mathcal{CP} - 400 = \frac{1}{3} \left( 480 - \mathcal{CP} \right)$$

$$3cp - 1200 = 480 - cp$$



Q) Anu sold an article for ₹480 at some profit. Had she sold it for ₹400, then there would have been a loss equal to one-third of the initial profit. What was the cost price of the article?

(a) ₹450

(b) ₹430

(c) ₹425

(d) ₹420

**Ans: (d)** 



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?

$$CP = 1000 = 4x + 5y$$

$$SP = (4x) \left( \frac{100 + 10}{100} \right) + 5y \left( \frac{100 + 20}{100} \right) = 4x \left( \frac{11}{10} \right) + 5y \left( \frac{6}{5} \right)$$

$$= \frac{4yx}{10} + \frac{30y}{5} = \frac{44x + 60y}{10}$$

$$120 = SP - CP$$



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)

$$100 \times (P \text{ for } 1 \text{ mango}) = 80 \times (SP \text{ of } 1 \text{ mango})$$

$$\frac{cp}{sp} = \frac{80}{100} = \frac{4}{5}$$

$$\frac{cp}{sp} = \frac{80}{100} = \frac{4}{5}$$

$$\frac{cp \circ f \times \text{ or ficlus}}{profit \%} = \frac{sp \circ f \times \text{ or ficlus}}{y \times 100}\%$$

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

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

₹ 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

$$= \frac{126}{100} CP - CP = \frac{26}{100} CP$$

$$MP = CP\left(\frac{140}{100}\right) = \frac{7}{5}CP$$

$$MP = CP\left(\frac{140}{100}\right) = \frac{2}{5}CP$$

$$net profit = \frac{26}{100}CP\left(\frac{9}{10}\right)$$

$$\frac{3p}{5} = \frac{7}{5} cp \left(\frac{90}{100}\right) = \frac{1126}{100} cp \qquad \frac{468}{1000} = \frac{234 cp}{1000}$$

$$468 = \frac{234 \text{ CP}}{1000}$$



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

(b) 4

(c) 7

(d) 7.5



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) 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)** 



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 ?

(PYO - 2021)

(PYQ-2021)

A. 
$$\neq 400$$

B.  $\neq 450$ 

CP =  $\Rightarrow 50$ 

C.  $\neq 550$ 

D.  $\neq 600$ 

$$= (350 - x) \left(\frac{305}{300}\right) + x \left(\frac{24}{300}\right)$$

$$= \frac{35x2}{3} - \frac{31}{30}x + \frac{24x}{30} = \frac{1575}{3}x + \frac{3x}{30}$$

$$\frac{1575}{2} + \frac{3x}{20} - 750 \qquad x / 00 = 16$$

$$750$$

$$787.5 + \frac{3x}{20} - 750 = \frac{8}{15} \frac{15}{150} = 120$$

$$\frac{3x}{20} + 37.5 = 120$$

$$x = (120 - 37.5) \times \frac{20}{3} = 27.5 \times 20 = 27.5 \times 2 \times 10$$

$$= 27.5 \times 2 \times 2 \times 5 \times 2 = 250$$

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%

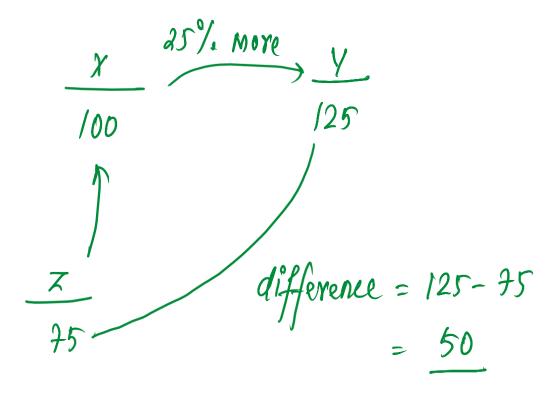
(c) 45%

(d) 50%

**Ans: (d)** 

X sells his goods 25% cheaper than Y and 25% dearer than Z. How much percentage is Z's goods 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) %



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)** 

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 ?

A. 6 % loss

(PYQ - 2019)

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

$$\left(\pm a \pm b \pm \frac{ab}{100}\right)\%$$
 when two items with same sp.

$$(30 - 30 - 900)\%$$

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 10 % on one and a loss of 10 % 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 10 % on one and a loss of 10 % 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 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) 
$$₹205 \frac{13}{17}$$

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

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

Ans: (d)



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)** 

# CDS-AFCAT 1 2025



