CDS-AFCAT 1 2025







07 Oct 2024 Live Classes Schedule

8:00AM 07 OCTOBER 2024 DAILY CURRENT AFFAIRS RUBY MA'AM

9:00AM O7 OCTOBER 2024 DAILY DEFENCE UPDATES DIVYANSHU SIR

SSB INTERVIEW LIVE CLASSES

9:30AM -- OVERVIEW ON PPDT & PRACTICE ANURADHA MA'AM

NDA 1 2025 LIVE CLASSES

11:30AM GK - MINERALS & RESOURCES RUBY MA'AM

1:00PM BIOLOGY - GROWTH IN ANIMALS SHIVANGI MA'AM

4:00PM MATHS - SETS, RELATION & FUNCTION - CLASS 4 NAVJYOTI SIR

5:30PM -- (ENGLISH - SPOTTING ERRORS - CLASS 3 ANURADHA MA'AM

CDS 1 2025 LIVE CLASSES

11:30AM GK - MINERALS & RESOURCES RUBY MA'AM

1:00PM BIOLOGY - GROWTH IN ANIMALS SHIVANGI MA'AM

5:30PM ENGLISH - SPOTTING ERRORS - CLASS 3 ANURADHA MA'AM

7:00PM MATHS - TIME & WORK - CLASS 2 NAVJYOTI SIR

AFCAT 1 2025 LIVE CLASSES

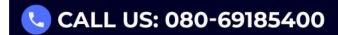
10:00AM REASONING - FIGURE COMPLETION RUBY MA'AM

4:00PM STATIC GK - OLYMPICS & COMMON WEALTH GAMES DIVYANSHU SIR

5:30PM ENGLISH - SPOTTING ERRORS - CLASS 3 ANURADHA MA'AM

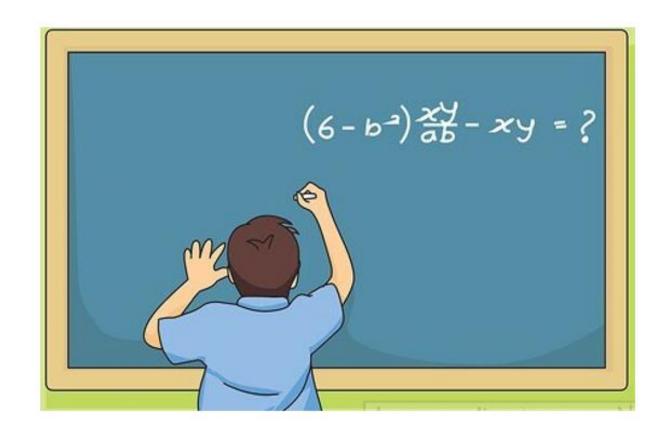
7:00PM MATHS - TIME & WORK - CLASS 2 NAVJYOTI SIR













Q) Two workers A and B working together completed a job in 5 days. If A worked twice as efficiently as he actually did and

$$\frac{A}{\left(\frac{1}{\chi}\right)} = \left(\frac{1}{5} - \frac{1}{\chi}\right)$$

$$= \frac{1}{5} = \frac{1}{$$

B worked $\frac{1}{3}$ as efficiently as he actually did, the work would

have completed in 3 days. Find the time for A to complete
$$\left(\frac{1}{3}\right) = \frac{3}{4}\left(\frac{1}{x}\right) + \frac{1}{3}\left(\frac{1}{5} - \frac{1}{x}\right)$$
 the job alone. (a) $6\frac{1}{4}$ days (b) $5\frac{3}{4}$ days $\frac{1}{3} - \frac{1}{15} = \frac{3}{x} - \frac{1}{3x}$

(a)
$$6\frac{1}{4}$$
 days

(b)
$$5\frac{3}{4}$$
 days

$$\frac{1}{3} - \frac{1}{15} = \frac{2}{x} - \frac{1}{3x}$$

$$\frac{9\cancel{1}\cancel{x}}{\cancel{y}\cancel{x}} = \frac{6-1}{3n}$$

$$\frac{3x}{5} = \frac{15}{4} + x = \frac{35}{12}$$

$$= 6\frac{3}{12} = 6\frac{4}{4} \frac{days}{days}$$



Q Two workers A and B working together completed a job in 5 days. If A worked twice as efficiently as he actually did and

B worked $\frac{1}{3}$ as efficiently as he actually did, the work would have completed in 3 days. Find the time for A to complete the job alone.

- (a) $6\frac{1}{4}$ days (b) $5\frac{3}{4}$ days (c) 5 days (d) None of these



Q) A and B can do a piece of work in 30 and 36 days respectively. They began the work together but A leaves after some days and B finished the remaining work in 25 days. After how many days did A leave?

(a) 6 days (b) 5 days (c) 11 days(d) 10 days

Remaining $1 - \frac{11n}{180} = \frac{180 - 11n}{180}$

Work in 'n' days =
$$n\left(\frac{1}{30} + \frac{1}{36}\right)$$

= $n\left(\frac{6+5}{180}\right) = n\left(\frac{11}{180}\right)$
= $\frac{1/\eta}{180}$

$$\frac{180 - 11n}{1805} = 25$$

$$\frac{180 - 11n}{180 5} = 2$$

$$\frac{1}{36}$$

$$180 - 11n = 125$$

$$11n = 55$$

$$n = 5$$



- Q) A and B can do a piece of work in 30 and 36 days respectively. They began the work together but A leaves after some days and B finished the remaining work in 25 days. After how many days did A leave?
 - (a) 6 days (b) 5 days (c) 11 days(d) 10 days

Ans: (b)



Q) George takes 8 hours to copy a 50 page manuscript while Sonia can copy the same manuscript in 6 hours. How many hours would it take them to copy a 100 page manuscript, if they work together?

(a)
$$6\frac{6}{7}$$
 (b) 9 (c) $9\frac{5}{7}$ (d) 14

The pather $\rightarrow \left(\frac{1}{8} + \frac{1}{6}\right) = \frac{14}{48} = \left(\frac{2}{34}\right)$
 180 $\rightarrow \frac{3}{34} \left(\frac{2}{34}\right) = \frac{2}{48} = 6\frac{6}{7}$ have



- Q George takes 8 hours to copy a 50 page manuscript while Sonia can copy the same manuscript in 6 hours. How many hours would it take them to copy a 100 page manuscript, if they work together?
 - (a) $6\frac{6}{7}$ (b) 9 (c) $9\frac{5}{7}$ (d) 14



Q) In an army camp ration is available for 100 soldiers for 10 days. After 2 days, 60 soldiers joined. Then, for how many more days will the remaining ration last?

- (a) 7 days
- (c) 5 days

- (b) 6 days
- (d) 4 days

$$\frac{800}{160} = 5 \text{ days}$$



Q) In an army camp ration is available for 100 soldiers for 10 days. After 2 days, 60 soldiers joined. Then, for how many more days will the remaining ration last?

(a) 7 days

(b) 6 days

(c) 5 days

(d) 4 days

Ans: (c)



Q) A is 40% more efficient than B and C is 20% less efficient than B. Working together, they can finish a work is 5 days. In how many days will A alone complete 70% of that work?

(a) 9 (b) 7 (c) 10 (d) 8

$$B \to \chi \text{ days} \quad 13 \text{ 's efficienty} = B' \text{ 's } 1 \text{ day work} = \frac{1}{\chi} \qquad \frac{7+5+4}{5\chi} = \frac{1}{2} \qquad \frac{1}{\chi} \left(1 + \frac{40}{100}\right) = \frac{7}{5\chi} \qquad \frac{7}{5\chi/6} = \frac{1}{2} \qquad \frac{7}{5\chi/6} = \frac{1}{2} \qquad \frac{7}{5\chi} \qquad \frac{7}{5\chi} = \frac{1}{2} \qquad \frac{7}{2} \qquad \frac{7}{2}$$



Q) A is 40% more efficient than B and C is 20% less efficient than B. Working together, they can finish a work is 5 days. In how many days will A alone complete 70% of that work?

(a) 9

(b) 7

(c) 10

(d) 8

Ans: (d)



- Q) A can do 50% more work than B in the same time. B alone can do a piece of work in 30 hours. B starts working and had already worked for 12 hours when A joins him. How many hours should B and A work together to complete the remaining work?
 - (a) 6 hours

(b) 12 hours

(c) 4.8 hours

(d) 7.2 hours

$$B \rightarrow \left(\frac{1}{30}\right) \qquad A \rightarrow \frac{1}{30}\left(1 + \frac{50}{100}\right) = \frac{3}{2} \times \frac{1}{30} = \left(\frac{1}{20}\right)$$

$$/3\left(\frac{1}{30}\right) = \left(\frac{4}{10}\right) = \frac{3}{5}$$

Remaining
$$1 - \frac{2}{5} = \frac{3}{5}$$

$$\frac{3}{5} + \frac{1}{30}$$

$$\frac{120}{50} = \frac{36}{50}$$

$$= 7.2 \text{ hour}$$



Q) A can do 50% more work than B in the same time. B alone can do a piece of work in 30 hours. B starts working and had already worked for 12 hours when A joins him. How many hours should B and A work together to complete the remaining work?

(a) 6 hours

(b) 12 hours

(c) 4.8 hours

(d) 7.2 hours

Ans: (d)



Q) A and B are two taps which can fill a tank individually in 10 minutes and 20 minutes respectively. However, there is a leakage at the bottom, which can empty a filled tank in 40 minutes. If the tank is empty initially, how much time will both the taps take to fill the tank with leakage?

2 minutes

(b) 4 minutes

(c) 5 minutes

$$\frac{A}{\frac{1}{20}} \qquad \frac{B}{\frac{1}{20}} \qquad \frac{A + \frac{B}{40}}{\frac{1}{20}}$$

$$| min \rightarrow \frac{1}{10} + \frac{1}{20} - \frac{1}{40} = \frac{9+2-1}{90} = \frac{5}{90} = \frac{1}{8}$$

$$8 \text{ mins} - \text{ filled fully } \sqrt{}$$



Q) A and B are two taps which can fill a tank individually in 10 minutes and 20 minutes respectively. However, there is a leakage at the bottom, which can empty a filled tank in 40 minutes. If the tank is empty initially, how much time will both the taps take to fill the tank with leakage?

(a) 2 minutes

(b) 4 minutes

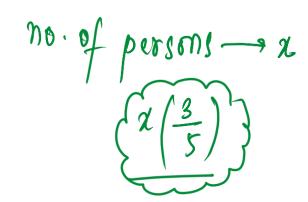
(c) 5 minutes

(d) 8 minutes

Ans: (d)



Q)A certain number of persons can complete a work in 34 days working 9 h a day. If the number of persons is decreased by 40%, then how many hours a day should the remaining persons work to complete the work in 51 days?



$$34 \times 9 \times 9 = 51 \times h \times \frac{3}{5} \times \frac{$$



Q)A certain number of persons can complete a work in 34 days working 9 h a day. If the number of persons is decreased by 40%, then how many hours a day should the remaining persons work to complete the work in 51 days?

19 (a)

(b) 8 (c) 12

(d) 10

Ans: (d)



Q) The efficiency of P is twice that of Q, whereas the efficiency of P and Q together is three times that of R. If P, Q and R work together on a job, in what ratio should they share their earnings?

(a) 2:1:1

(b) 4:2:1

(c) 4:3:2

(d) 4:2:3



Q) The efficiency of P is twice that of Q, whereas the efficiency of P and Q together is three times that of R. If P, Q and R work together on a job, in what ratio should they share their earnings?

(a) 2:1:1

(b) 4:2:1

(c) 4:3:2

(d) 4:2:3



Q)2 men and 1 woman can complete a piece of work in 14 days, while 4 women and 2 men can do the same work in 8 days. If a man gets ₹ 90 per day, what should be the wages per day of a woman?

(a) ₹48

(b) ₹ 60

(c) ₹ 72

(d) ₹135

$$\partial x + y = \frac{1}{14}$$

$$2x + 4y = \frac{1}{8}$$



Q)2 men and 1 woman can complete a piece of work in 14 days, while 4 women and 2 men can do the same work in 8 days. If a man gets ₹ 90 per day, what should be the wages per day of a woman?

(a) ₹ 48

(b) ₹ 60

(c) ₹ 72

(d) ₹135

Ans: (b)



Q) P and Q together can do a job in 6 days. Q and R can finish

the same job in $\frac{60}{7}$ days. P started the work and worked for

3 days. Q and R continued for 6 days. Then the difference of days in which R and P can complete the job is

- (a) 8
- (b) 12 (c) 10
- (d) 15



Q) P and Q together can do a job in 6 days. Q and R can finish

the same job in $\frac{60}{7}$ days. P started the work and worked for

3 days. Q and R continued for 6 days. Then the difference of days in which R and P can complete the job is

- (a) 8
- (b) 12 (c) 10
- (d) 15

Ans: (c)



Q) A, B and C can do work separately in 16, 32 and 48 days respectively. They started the work together but B leaving off 8 days and C six days before the completion of the work. In what time is the work finished?

(a) 12 days (b) 10 days (c) 14 days(d) 9 days



Q) A, B and C can do work separately in 16, 32 and 48 days respectively. They started the work together but B leaving off 8 days and C six days before the completion of the work. In what time is the work finished?

(a) 12 days (b) 10 days (c) 14 days(d) 9 days



Q) The labourers A, B, C were given a contract of ₹ 750 for doing a certain piece of work. All the three together can finish the work in 8 day. A and C together can do it in 12 day, while A and B together can do it in 13 1/3 days. The money will be divided in the ratio

(a) 4:5:6 (b) 4:7:5 (c) 5:7:4 (d) 5:6:8



Q) The labourers A, B, C were given a contract of ₹ 750 for doing a certain piece of work. All the three together can finish the work in 8 day. A and C together can do it in 12 day, while A and B together can do it in 13 1/3 days. The money will be divided in the ratio

(a) 4:5:6 (b) 4:7:5 (c) 5:7:4 (d) 5:6:8



Q) A pump can be operated both for filling a tank and for emptying it. The capacity of tank is 2400 m³. The emptying capacity of the pump is 10 m³ per minute higher than its filling capacity. Consequently, the pump needs 8 minutes less to empty the tank to fill it. Find the filling capacity of pump.

(a) $50 \,\mathrm{m}^3/\mathrm{min}$

(b) $60 \,\mathrm{m}^3/\mathrm{min}$

(c) $58 \,\mathrm{m}^3/\mathrm{min}$

(d) None of these



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(a) $50 \,\mathrm{m}^3/\mathrm{min}$

(b) $60 \,\mathrm{m}^3/\mathrm{min}$

(c) 58 m³/min

(d) None of these



- **Q** Consider the following statements:
 - I. If 18 men can earn ₹ 1440 in 5 days, then 10 men can earn ₹1280 in 6 days.
 - II. If 16 men can earn ₹1120 in 7 days, then 21 men can earn ₹ 800 in 4 days.

Which of the above statements is/are correct?

(a) Only I

- (b) Only II
- (c) Both I and II
- (d) Neither I nor II



- **Q** Consider the following statements :
 - I. If 18 men can earn ₹ 1440 in 5 days, then 10 men can earn ₹1280 in 6 days.
 - II. If 16 men can earn ₹1120 in 7 days, then 21 men can earn ₹ 800 in 4 days.

Which of the above statements is/are correct?

(a) Only I

- (b) Only II
- (c) Both I and II
- (d) Neither I nor II

Ans: (d)



Q) A garrison of 'n' men had enough food to last for 30 days. After 10 days, 50 more men joined them. If the food now lasted for 16 days, what is the value of n?

(a) 200

(b) 240

(c) 280

(d) 320



Q) A garrison of 'n' men had enough food to last for 30 days. After 10 days, 50 more men joined them. If the food now lasted for 16 days, what is the value of n?

(a) 200

(b) 240

(c) 280

(d) 320



Q) Seventy-five men are employed to lay down a railway line in 3 months. Due to certain emergency conditions, the work was to be finished in 18 days. How many more men should be employed to complete the work in the desired time?

(a) 300

(b) 325

(c) 350

(d) 375



Q) Seventy-five men are employed to lay down a railway line in 3 months. Due to certain emergency conditions, the work was to be finished in 18 days. How many more men should be employed to complete the work in the desired time?

(a) 300

(b) 325

(c) 350

(d) 375



Q) A can do a piece of work in 10 days, while B alone can do it in 15 days. They work together for 5 days and the rest of the work is done by C in 2 days. If they get ₹ 450 for the whole work, how should they divide the money?

- - ₹225,₹150,₹75 (b) ₹250,₹100,₹100
- (c) $\neq 200, \neq 150, \neq 100$ (d) $\neq 175, \neq 175, \neq 100$

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