

JKP Const

JKP MATH CLASSES

$P = \frac{\text{part}}{\text{whole}} \times 100$
 $\frac{75}{100} \times 100 = 75\%$

$\frac{a}{b} \times 100 = \%$
 $50\% = \frac{50}{100} = 0.5$

PERCENTAGE CLASS 02

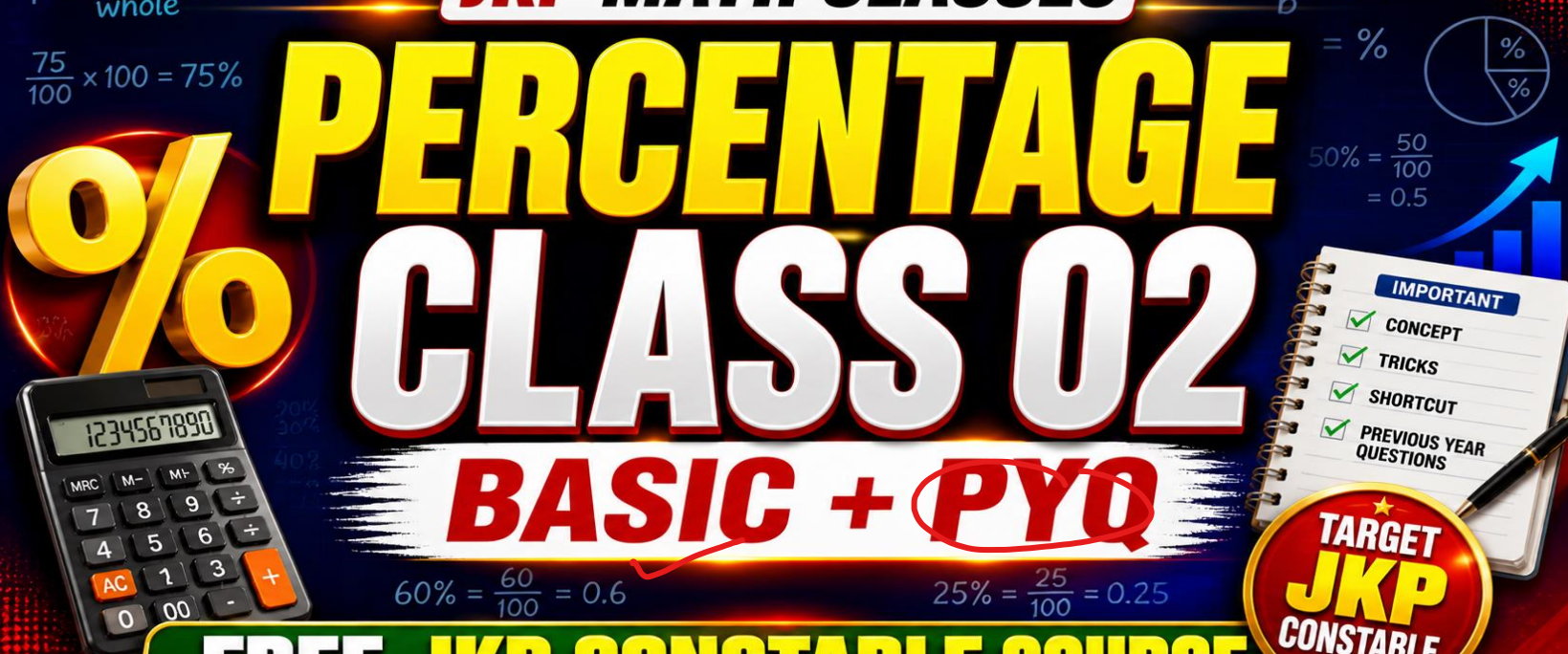
BASIC + PYQ

FREE JKP CONSTABLE COURSE

TARGET JKP CONSTABLE

IMPORTANT
✓ CONCEPT
✓ TRICKS
✓ SHORTCUT
✓ PREVIOUS YEAR QUESTIONS

60% = $\frac{60}{100} = 0.6$
25% = $\frac{25}{100} = 0.25$

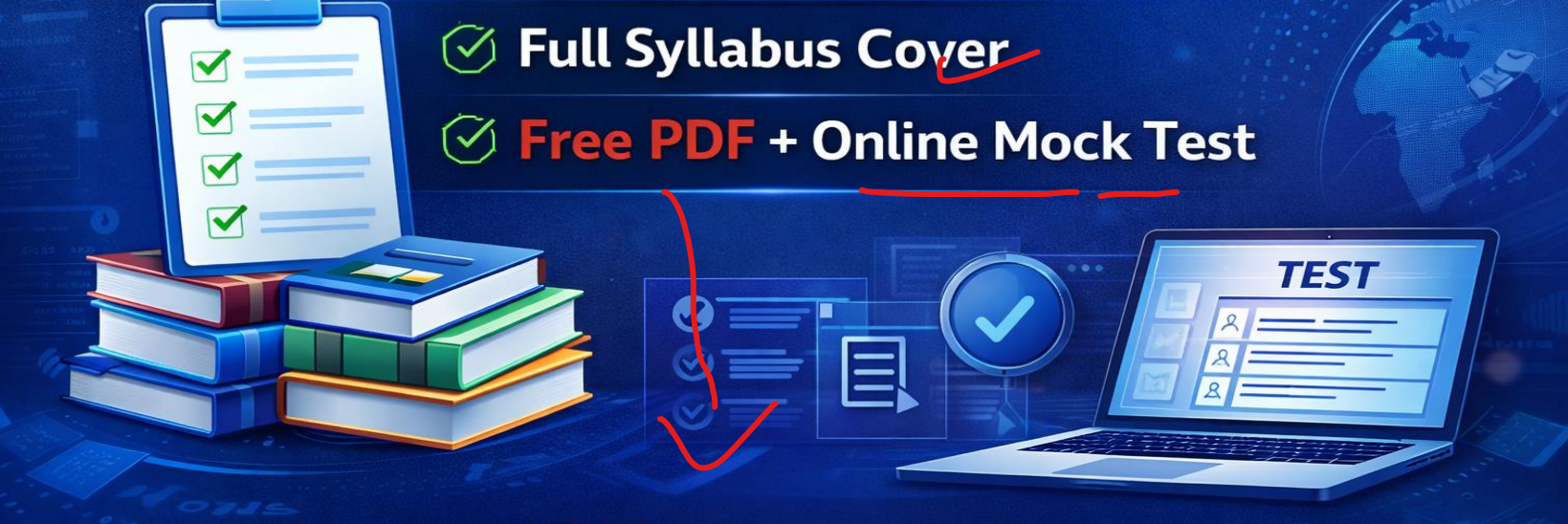


👉 JKP CONSTABLE FREE COURSE

👉 Math • Reasoning • English • GK • Computer – All Classes

✓ Full Syllabus Cover
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TEST



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JKP CONSTABLE SYLLABUS

- Number System
- Percentage $\approx 1\checkmark$
- Ratio and Proportion
- Profit and Loss
- Average
- Time, Speed and Distance
- Algebra
- Mensuration
- Simple and Compound Interest
- Trigonometry
- Simplification
- Mathematical Reasoning



JKP CONSTABLE PREVIOUS YEAR ANALYSIS

- Number System **02**
- Percentage **03** $\checkmark$
- Ratio and Proportion **02**
- Profit and Loss **01**
- Average
- Time, Speed and Distance
- Algebra
- Mensuration
- Simple & Compound Interest
- Trigonometry
- Simplification
- Mathematical Reasoning **03**



JKP Constable Math classes By JK Study: Class 02

Chapter :1

Theory and Basic

Percentage means 1/100

Ex: 25% of 80

Ex: 40% of 200

Percentage Question Types

- ✓ 1. Basic.
- ✓ 2. Language. = ✓
3. Pass, Fail
4. Population
5. Election

Some important percentage basic conversion

1. $100\% = 1$

6. $66.66\% = 1/6$

2. $50\% = 1/2$

7. $14.28\% = 1/7$

3. $33.33\% = 1/3$

8. $12.5\% = 1/8$

4. $25\% = 1/4$

9. $11.11\% = 1/9$

5. $20\% = 1/5$

10. $10\% = 1/10$

Some important percentage basic

11. $9.99\% = 1/11$

12. $8.33\% = 1/12$

13. $7.14\% = 1/14$

14. $6.75\% = 1/15$

15. $6.25\% = 1/16$

16. $37.5\% = 3/8$

17. $57.12\% = 4/7$

Type-2: Language ← Based

A% of B = B% of A, then A is how much of B = A/B

You have to understand language very carefully

✓ Q:1 If 60% of A = $\frac{3}{4}$ of B then what is the value of A and B ?

a) 9,20

b) 20,9

c) 4,5

d) 5,4 ✓

$$\Rightarrow \frac{60}{100} \times A = \frac{3}{4} \times B$$

$$\Rightarrow \frac{3}{5} A = \frac{3}{4} B, \Rightarrow \frac{A}{B} = \frac{3}{4} \times \frac{5}{3} = \boxed{\frac{5}{4}}$$

Q:2 50% of a number when added to 50 is equal to the number. The number is

(1) 50

(2) 75

✓ (3) 100

(4) 150

$$\Rightarrow \frac{50}{100} \times N + 50 = N$$

$$\Rightarrow \frac{1}{2} N + 50 = N, \Rightarrow \frac{N + 100}{2} = N$$

$$\Rightarrow N + 100 = 2N, \Rightarrow 2N - N = 100$$

$$\Rightarrow N = \boxed{100}$$

✓ Q:3 If x is less than y by 25% then y exceed x by :

(1) $33 \frac{1}{3}\%$

✓ (2) 25%

(3) 75%

(4) $66 \frac{2}{3}\%$

$$\Rightarrow \begin{matrix} y & x \\ 100 & 75 \end{matrix} \Rightarrow \frac{25}{100} \times 100 = 25\%$$

✓ Q:4 If x earns 25% more than y. What percent less does y earn than x?

(1) 16%

(2) 10%

✓ (3) 20%

(4) 25%

$$\begin{matrix} x & y \\ 125 & 100 \end{matrix}$$

$$\frac{25}{125} \times 100 = 20\%$$

Q:5 Pyq $\Rightarrow$ Graduate 2025

Imp

Two times a number, added to the square of that number, gives 3. What could be the possible answer for this number?

A) (-1) or (-3)

B) (-1) or 3

C) 1 or 3

✓ D) 1 or (-3)

$$\Rightarrow 2N + [N]^2 = 3$$

$$\Rightarrow N^2 + 2N - 3 = 0$$

$$\Rightarrow N^2 + 3N - N - 3 = 0$$

$$\Rightarrow N[N+3] - 1[N+3] = 0$$

$$\Rightarrow [N+3][N-1] = 0, \Rightarrow N = \boxed{-3, 1}$$

$$= 3N^2, 2N$$

Q: 6

If a car's price increased by 15%, and then decreased by 10%, what is the net percentage change in the price?

A) 5% increase
B) 5% decrease
C) No change
D) 2.5% increase

$$= \frac{3}{20} \div \frac{1}{10}$$

I-Basic

$$\frac{100}{100} \times 115 \times \frac{10}{100} = 11.5$$

$$\Rightarrow 103.5 \Rightarrow 3.5\% \text{ inc}$$

2nd = Ratio

$$\begin{array}{r} 0 \quad 2 \\ 20 \quad 23 \\ 10 \quad 9 \end{array}$$

$$\frac{200}{200} \quad \frac{207}{207}$$

$$\Rightarrow \frac{7}{2002} + 100 = 13.5$$

Q: 7

A man spends 35% of his income on house rent, 75% of the remaining on the other items. What percentage of income does he save?

- A) 16.25
B) 34.50
C) 48.75
D) 36.25

$\Rightarrow$ Income R

$$100 - 35 = 65 \times \frac{75}{100} = 48.75$$

$$\begin{array}{r} 65 \\ 48.75 \\ \hline 16.25 \end{array}$$

Q: 8 Ans. Comp. 2022

The price of a bucket has increased from Rs.1240 to Rs.1426. Find the percentage increase in the price.

- (A) 5
(B) 15 (Correct Answer) (Chosen option)
(C) 20
(D) 10

$$\begin{array}{r} 0 \quad 2 \\ 1240 \quad 1426 \end{array}$$

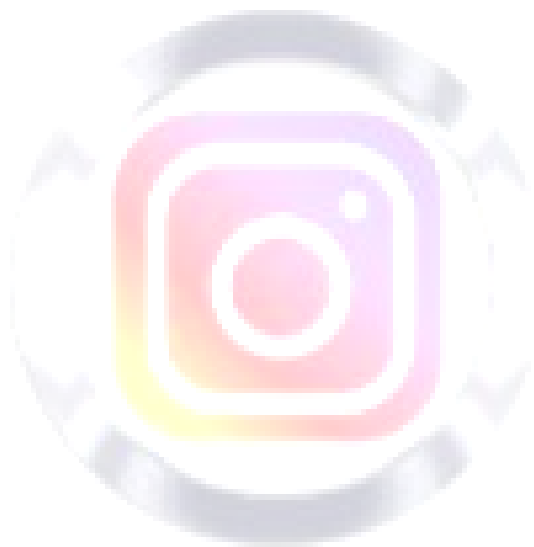
$$\frac{186}{1240} \times 100 = \frac{1860}{124} = 15$$

Q: 9 ✓

After 6205 liters of petrol was poured into the tank, it was still 15% empty. What is the total capacity of the tank?(In liters)

- (A) ☐ 7000
(B) ☐ 7100
(C) ☒ 7300 (Correct Answer) (Chosen option)
(D) ☐ 7200

$$\begin{aligned} \Rightarrow 15\% &= \frac{3}{20} \\ 17 - \frac{6205}{17} &= \boxed{365} \times 20 \\ &= \boxed{7300} \end{aligned}$$



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