

 **MISSION SSC 2027**

PERCENTAGE

प्रतिशत

DEMO CLASS – 01

 **CONCEPT + TRICKS + PYQs**

 **BY GAGAN PRATAP SIR**



(1-2) Q's
≈ 15+ classes
{ 35+ Q's }
38 frets

भारत के सर्वश्रेष्ठ अध्यापक अब एक ही APP पर



SELECTION BATCH 11.0



ADMISSION STARTS

6 AUG



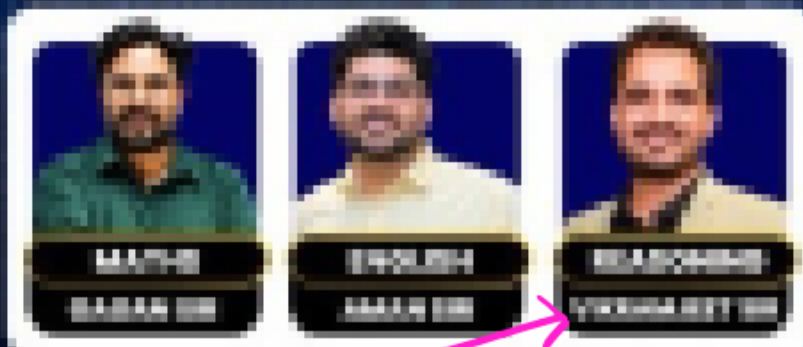
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IPM
+ recorded

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- ✓ Conceptual Clarity
- ✓ **Pdf Notes & Tests**
- ✓ Live Classes



Course Fee : 1999/-



SSC MATH SYLLABUS

/Railway

ARITHMETIC MATH

(10-12)

TOPIC NAME

Percentage/प्रतिशत ①	(Basic core concept)
Ratio & Proportion/अनुपात और समानुपात ①	
Profit & Loss/लाभ और हानि	
Discount & Dishonest Shopkeeper/छूट और धोखेवाला दुकानदार	
Time & Work/समय और कार्य	①
Pipe & Cistern/पाइप और टंकी	
Simple Interest/सरलचक्रण व्याज	①
Compound Interest/संयोजक चक्रण व्याज	
Installment/निश्चय	×
Average/औसत ①	
Time, Speed & Distance/समय, गति और दूरी	①
Problems on Train/ट्रेन	
Boat & Stream/जाह और खाटा	
Circular and Linear Race/गुलाकार और रेखीय दौड़	
Problems on Ages/आयु पर समस्याएँ	(0-1)
Partnership/साझेदारी ①	
Mixture & Alligation/मिश्रण एवं संलयन	(0-1)
DI/आंकड़े विश्लेषण	×

~(7-8) Months

NUMBER SYSTEM

TOPIC NAME

Number system/संख्या प्रणाली
Calculation & Simplification/गणना एवं सरलीकरण
Burds & Indices/घातांक और करणी
L.C.M & H.C.F/ल.स.स. और एच.स.स.

(3-4)

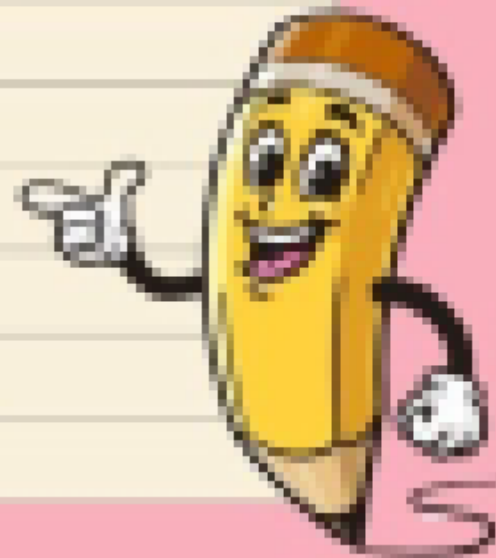
सबसे अधिक

ADVANCED MATH

TOPIC NAME

(12-13)

Algebra + Quadratic Equation/बीजगणित + द्विघात समीकरण
Trigonometry + height & distance/त्रिकोणमिति + ऊँचाई और दूरी
Geometry/ज्यामिति
Co-ordinate Geometry/निर्देशांक ज्यामिति
Mensuration 2D & 3D/क्षेत्रमिति 2D और 3D
Statistics/आंकड़े
Permutation and combination/क्रमचय और संघय
Probability/संभाव्यता





PERCENTAGE (प्रतिशत)

$$1\% \rightarrow \frac{1}{100}$$

या

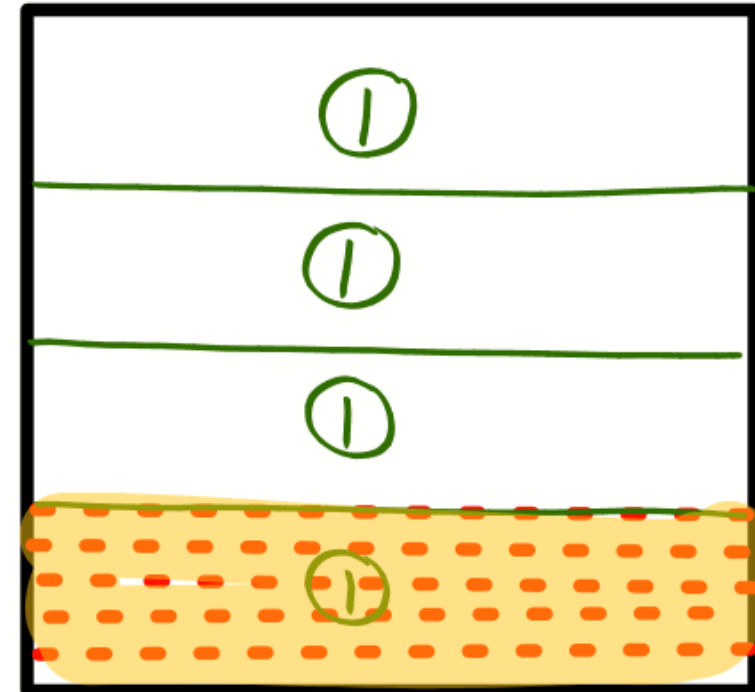
$$100\% \rightarrow 1$$

पूर्णा

$$1 \rightarrow 100\%$$

$$\frac{1}{2} \rightarrow 50\%$$

$$\frac{1}{4} \rightarrow 25\%$$



Percentage क्या है ?



1 टुकड़ा
= $\frac{1}{10}$ पिज्जा
= **10%**

💡 हर टुकड़ा = $\frac{1}{10} = 10\%$

$$\frac{1}{10} \rightarrow \frac{100}{10}\% = 10\%$$
$$\frac{3}{10} \rightarrow 30\%$$

उदाहरण (Example)

- 🍕 अगर पिज्जा के **10** टुकड़े हैं,
- 🍕 और आपने **3** टुकड़े खाए,
- 🍕 तो आपने $\frac{3}{10}$ पिज्जा खाया
- 🍕 यानी **30%** पिज्जा खाया।

PERCENTAGE – प्रतिशत



$$1\% = \frac{1}{100}$$

$$x\% = x \times (1\%)$$

$$x\% = \frac{x}{100}$$



1%

$$= \frac{1}{100} \text{ or } 100\% = 1$$



1%

$$= \frac{1}{100}$$



$x\%$

$$= x \times \frac{1}{100} = \frac{x}{100}$$



28%

$$= \frac{28}{100} = \frac{7}{25}$$

Percentage to fraction प्रतिशत से भिन्न

$$x\% = \frac{x}{100}$$

$$15\% = \frac{15}{100} = \frac{3}{20}$$

$$36\% = \frac{36}{100} = \frac{9}{25}$$

$$7\frac{13}{16}\% = \frac{125}{16}\% = \frac{125}{16} \times \frac{1}{100} = \frac{5}{64}$$

$$7\frac{13}{16} = 7 + \frac{13}{16} = \frac{125}{16}$$

$$24.8\% \rightarrow \frac{24.8}{100} = \frac{31}{125}$$



EXAMPLE

$$N = N \times 100\%$$

$$\frac{a}{b} \rightarrow \frac{a}{b} \times 100\%$$



$$\begin{aligned} 2 &\rightarrow 2 \times 100\% \\ 3.7 &\rightarrow 3.7 \times 100\% \\ .0008 &= .0008 \times 100\% \end{aligned}$$

भिन्न से %

$$N = N \times 100\%$$

$$1 \rightarrow 100\%$$

$$\frac{1}{2} \rightarrow 50\%$$

$$\frac{1}{2} \times 100\%$$

$$\frac{3}{5} \rightarrow \frac{3}{5} \times 100\% \rightarrow 60\%$$

$$\frac{11}{20} \rightarrow \frac{11}{20} \times 100\% \rightarrow 55\%$$

$$2 \rightarrow 200\%$$

$$4.5 \rightarrow 450\%$$

$$3.7 \rightarrow 370\%$$

$$5.83 \rightarrow 583\%$$

$$0.0008 \rightarrow 0.08\%$$



1. Convert $\frac{2}{35}$ to percentage.

$\frac{2}{35}$ को प्रतिशत में बदलिए।

UPSI 2026

[a] 6.32%

[b] 3.45%

[c] 4.63%

[d] 5.71%

$$\frac{2}{35} \rightarrow \frac{2}{35} \times 100\% = \frac{40}{7}\%$$



Fraction	Percentage
1	→ 100%
$\frac{1}{2}$	→ 50%
$\frac{1}{3}$	→ $33\frac{1}{3}\% = 33.33\%$
$\frac{1}{4}$	→ 25%
$\frac{1}{5}$	→ 20%
$\frac{1}{6}$	→ $16\frac{2}{3}\% = 16.66\%$
$\frac{1}{7}$	→ $14\frac{2}{7}\% = 14.28\%$

Fraction	Percentage
$\frac{1}{8}$	→ 12.5%
$\frac{1}{9}$	→ $11\frac{1}{9}\% = 11.11\%$
$\frac{1}{10}$	→ 10%
$\frac{1}{11}$	→ $9\frac{1}{11}\% = 9.09\%$
$\frac{1}{12}$	→ $8\frac{1}{3}\% = 8.33\%$
$\frac{1}{14}$	→ $7\frac{1}{7}\% = 7.14\%$
$\frac{1}{15}$	→ $6\frac{2}{3}\% = 6.66\%$

Fraction	Percentage
$\frac{1}{16}$	→ 6.25%
$\frac{1}{20}$	→ 5%
$\frac{1}{24}$	→ $4\frac{1}{6}\% = 4.16\%$
$\frac{1}{25}$	→ 4%
$\frac{1}{30}$	→ $3\frac{1}{3}\% = 3.33\%$
$\frac{1}{50}$	→ 2%

$\frac{1}{40} \rightarrow \frac{1}{40} \times \frac{5}{5} = 2.5\%$




$$\frac{1}{12} \rightarrow \frac{100\%}{12} = \frac{25\%}{3} = 8\frac{1}{3}\% \approx 8.33\%$$

$$\frac{1}{15} \rightarrow \frac{100\%}{15} = \frac{20\%}{3} = 6\frac{2}{3}\% \approx 6.66\%$$

$$\frac{1}{24} \rightarrow \frac{100\%}{24} = \frac{25\%}{6} = 4\frac{1}{6}\% \approx 4.16\%$$

☆☆☆

$$\frac{1}{3} \rightarrow \frac{1}{3} \times 100\% = 33\frac{1}{3}\% \approx 33.33\%$$

3) 100 (33.33

99

10 Rem

9

10

...




$$\frac{1}{6} \rightarrow \frac{1}{6} \times 100\% = \frac{50}{3}\% = 16\frac{2}{3}\% \approx 16.66\%$$

$$\frac{1}{7} \rightarrow \frac{100\%}{7} = 14\frac{2}{7}\% \approx 14.28\%$$

$$\frac{1}{9} \rightarrow \frac{100\%}{9} = 11\frac{1}{9}\% \approx 11.11\%$$

$$\frac{1}{11} \rightarrow \frac{100\%}{11} = 9\frac{1}{11}\% \approx 9.09\%$$

2. 12.75% is equivalent to _____

12.75% _____ के बराबर है।

(SSC CHSL PRE 2024)

[A] 37/400 ✗

[C] 41/400 ✗

✓ [B] 51/400

[D] 17/200 ✗

$$\cdot 25 = \frac{1}{4}$$

$$\cdot 50 = \frac{1}{2}$$

$$\cdot 75 = \frac{3}{4}$$

$$(12 + .75)\%$$

$$= (12 + \frac{3}{4})\% = \frac{51}{4}\% = \frac{51}{4} \times \frac{1}{100}$$

$$\frac{37}{400} \times 100\% = 9\frac{1}{4}\%$$



3. Express the following as decimals, respectively. 20%, 0.5%, 0.03%?

निम्नलिखित को क्रमशः दशम लव के रूप में व्यक्त करें। 20%, 0.5%, 0.03%?

(SSC CHSL PRE 2024)

$$= .20, .005, .0003$$

[A] ~~0.02, 0.005, 0.003~~

[B] ~~0.02, 0.005, 0.003~~

[C] ✓ 0.2, 0.005, 0.0003

[D] ~~0.2, 0.0005, 0.0003~~

$$1\% = \frac{1}{100} = .01$$

$$x\% = \frac{x}{100} = .01 \times x$$

$$26\% \rightarrow \frac{26}{100} = .26$$

$$764\% \rightarrow 7.64$$

$$9.2\% \rightarrow .092$$

$$40\% \rightarrow .40$$



4. What is the square root of 144%?

144% का वर्गमूल क्या है ?

(SSC GD 2024)

[A] ~~12%~~

[B] 0.12%

☒ [C] 120%

[D] 1.2%

$$\sqrt{144\%} = \sqrt{\frac{144}{100}} = \frac{12}{10} \times 100\% = 120\%$$

5. If A percent of $A = 729$, then what is the value of A^2 ?

यदि A का A प्रतिशत 729 है, तो A^2 का मान क्या है?

(SSC GD 2026)

A. 71400

☒ B. 72900

C. 76400

D. 73200

$$A\% \text{ of } A = 729$$

$$\frac{A}{100} \times A = 729$$

$$A^2 = 72900$$



MATHS SPECIAL 11.0



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Gagan Sir

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