



SSC GD 2025



अवसर बेर

MATHS

DEMO-01

Percentage (प्रतिशत)

LIVE 09-05-2024 08:00 AM





SSC GD 2025 अवसर बैच MATHS



TIME TABLE



SSC GD 2025



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MATHS

08:00 AM



REASONING

10:00 AM



हिंदी/ENGLISH

11:00 AM



POLITY/HISTORY

12:00 PM



GEO./ECO.

04:00 PM



SCIENCE

05:00 PM



STATIC G.K

Registration Starts from

3rd MAY

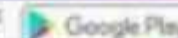
Classes Start from

9th MAY

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- ▶ Experienced Teachers

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Registration Starts from
3rd MAY

Classes Start from
9th MAY

कोर्स कैसे PURCHASE करें ?





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DEMO-1



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SSC GD SYLLABUS (Total Chapters)

Elementary Mathematics: This paper will include questions on problems relating to Number Systems, Computation of Whole Numbers, Decimals and Fractions and relationship between Numbers, Fundamental arithmetical operations, Percentages, Ratio and Proportion, Averages, Interest, Profit and Loss, Discount, Mensuration, Time and Distance, Ratio and Time, Time and Work, etc.

SSC GD (2025) SYLLABUS (Total Chapters)

Chapters		No. of questions
1	Percentage (प्रतिशत)	2 - 3
2	Profit & loss (लाभ तथा हानि)	2 - 3
3	Discount (बट्टा)	1 - 2
4	Ratio & Proportion (अनुपात-समानुपात)	2 - 3
5	Partnership (साझेदारी)	0 - 1
6	Mixture & Alligation (मिश्रण)	0 - 1
7	Average (औसत)	1 - 2
8	LCM & HCF (लघुत्तम समापवर्त्य और महत्तम समापवर्तक)	1 - 2
9	Time & Work (समय तथा कार्य)	1 - 2

10	Pipe & Cistern (पाईप तथा टंकी)	0 - 1
11	Simple Interest (साधारण ब्याज)	1 - 2
12	Compund Interest (चक्रवृद्धि ब्याज)	1 - 2
13	Time Speed & Distance (समय चाल तथा दूरी)	1
14	Number System (संख्या पद्धति)	1 - 2
15	Simplification (सरलीकरण)	2 - 3
16	Surds & Indices (घातांक तथा करणी)	0 - 1
17	Mensuration (क्षेत्रमिति) 2D /3D	1 - 2
18	Data Interpretation (DI)	
19.	Miscellaneous	1-2

Percentage (प्रतिशत)

↓
Per + Cent

↓
100

↓
प्रति + शत


↓
100

↳ 100 में से किसी संख्या का मान

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

Percentage fraction
(भिन्न)

20% = $\frac{20}{100}$ = $\frac{1}{5}$



$$12\frac{1}{2}\% = \frac{25}{2}\%$$

$$= \frac{\cancel{25}^1}{2 \times \cancel{100}_4} = \frac{1}{8}$$

$$2\frac{1}{2}\% = \frac{5}{2}\% = \frac{\cancel{5}^1}{2 \times \cancel{100}_{20}} = \frac{1}{40}$$

Percentage to fraction
(प्रतिशत से भिन्न)

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

ex

$$10\% = \frac{10}{100} = \frac{1}{10}$$

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

$$16\frac{2}{3}\% = \frac{50}{3}\%$$

$$\frac{50}{3 \times 100} = \frac{1}{6}$$

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

$$200\% = 2$$

$$300\% = 3$$

$$120\% = \frac{120}{100} = \frac{6}{5}$$

$$\downarrow$$
$$100\% + 20\%$$

$$1 + \frac{1}{5} = \frac{6}{5}$$

$$116\frac{2}{3}\% =$$

$$100\% + 16\frac{2}{3}\%$$

$$1 + \frac{1}{6} = \frac{7}{6}$$












$$\frac{1}{2} \rightarrow \frac{1}{2} \times \frac{50}{100} = 50\%$$

fraction to percentage
(भिन्न से प्रतिशत)

$$\frac{5}{12} \rightarrow \frac{5}{12} \times \frac{20}{100} = 40\%$$

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

$$1 \rightarrow 1 \times 100 = 100\%$$

Fraction	Percentage Equivalent
1/2 	50%
1/3 	$33\frac{1}{3}\%$ = 33.33%
1/4 	25%
1/5 	20%
1/6 	$16\frac{2}{3}\%$ = 16.66%
1/7 	$14\frac{2}{7}\%$ = 14.28%
1/8 	$12\frac{1}{2}\%$ = 12.50%
1/9 	$11\frac{1}{9}\%$ = 11.11
1/10 	10%
1/11 	$9\frac{1}{11}\%$ = 9.09%
1/12 	$8\frac{1}{3}\%$ = 8.33%



Fraction	Percentage Equivalent
$\frac{2}{3}$	$66\frac{2}{3}\%$
$\frac{2}{5}$	40%
$\frac{3}{5}$	60%
$\frac{4}{5}$	80%
$\frac{3}{8}$	$37\frac{1}{2}\%$
$\frac{5}{8}$	$62\frac{1}{2}\%$
$\frac{5}{4}$	125%
$\frac{2}{5}$	40%
$\frac{7}{8}$	$87\frac{1}{2}\%$



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$$\frac{9}{40} \times 100 = \frac{9 \times 5}{2} = 22\frac{1}{2}\%$$

1. Convert $\frac{9}{40}$ to a percentage.

$22\frac{1}{2}\%$ $\frac{9}{40}$ को प्रतिशत में परिवर्तित कीजिए।

(a) $2\frac{1}{2}\%$

(b) 2%

(c) 22%

(d) $22\frac{1}{2}\%$



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$$2.4 \rightarrow \frac{24 \times 100}{100}$$
$$= 240\%$$

2. 2.4 converted to percentage is:

2.4 प्रतिशत में परिवर्तित है:

- (a) 0.24
- (b) 24
- (c) 240
- (d) 2.4

20% of 240
240 का 20%

⇓

$$\frac{20}{100} \times 240 = 48$$

20% of 10% of 1000
1000 का 10% का 20%

$$1000 \times \frac{10}{100} \times \frac{20}{100} = 20$$

का \rightarrow of \Rightarrow multiply
(गुणा)

a% of b (b का a%)

⇓

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



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$$1 \text{ Km} \rightarrow 1000 \text{ m}$$

$$1 \text{ m} \rightarrow 100 \text{ cm}$$

$$1 \text{ Km} \rightarrow 100000 \text{ cm}$$

$$1.2 \text{ Km} \rightarrow \frac{12}{10} \times 100000 \text{ cm}$$

$$120000 \text{ cm}$$

$$\frac{34}{100} \times 120000$$

$$40800 \text{ cm}$$

3. What is 34% of 1.2km

1.2 किलोमीटर का 34% क्या है?

(a) 4,08,000 cm

(b) 408 cm

(c) 40,800 cm

(d) 4,080 cm



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$$1 \text{ लीटर} = 1000 \text{ ml}$$

4. 8% of 5 liters is:

$$5 \text{ L} = 5 \times 1000 \\ = 5000 \text{ ml.}$$

5 लीटर का 8% है:

(a) 0.4 ml (b) 400 ml

5000 का 8%.

(c) 40 ml (d) 4 ml

$$5000 \times \frac{8}{100} = \underline{\underline{400 \text{ ml}}}$$



5. What will be the value of

Handwritten solution:

$$2000 \cancel{0} \times \frac{1}{\cancel{6}} \times \frac{\cancel{25}}{100} \times \frac{10}{\cancel{100}}$$

10% of $16\frac{2}{3}\%$ of 25% of 12000 and

$$\frac{200}{4} = 50$$

12000 का $16\frac{2}{3}\%$ का 25% का 10% का मान क्या होगा?

- (A) 50
- (B) 25
- (C) 600
- (d) इनमें से कोई नहीं



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$$A \times \frac{\cancel{20}}{\cancel{100}^5} \times \frac{\cancel{25}}{100} = \overset{10}{\cancel{250}}$$

$$A = 500 \times 10 = 5000$$

$$\frac{35}{100} \times 5000$$

$$\underline{\underline{1750}}$$

6. 25 % of 20 % of a number is equal to 250. What is 35 percent of that number?

(A) किसी संख्या के 20 % का 25 % 250 के बराबर है। उस संख्या का 35 % कितना है?

A. 1650

B. 1570

C. 1560

D. 1750

SSC GD (20/02/2024) SHIFT-2nd



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$$40 \times \frac{30}{100} + 30 \times \frac{1460}{100}$$

$$12 + 438 \\ = \underline{450}$$

7. The sum of 30% of 40 and 1460% of 30 will be-

40 के 30% और 30 के 1460% का योग होगा-

(a) 250

(b) 300

(c) 450

(d) 500



$$A \times \frac{13}{2}\% = 52$$

$$A \times \frac{\cancel{13}}{2 \times 100} = \frac{4}{\cancel{52}}$$

$$A = 200 \times 4 = \underline{\underline{800}}$$

8. $5\frac{3}{2}\%$ of a number is equal to 52.
what is the number?

A एक संख्या का $5\frac{3}{2}\%$, 52 के बराबर है।
संख्या क्या है?

- (a) 800 (b) 750
(c) 672 (d) 576



9. If 25% of 400 + 35% of 1260 + 27% of 1800 = 1020 + x, then the value of x lies between:

यदि 400 का 25% + 1260 का 35% + 1800 का 27% = 1020 + x है, तो x को मान _____ के बीच होगा।

(a) 6 to 10

(b) 16 to 20

(c) 0 to 5

(d) 11 to 15