



ଓଡ଼ିଶାର ସମସ୍ତ ପୂର୍ବ ବର୍ଷର ପ୍ରଶ୍ନ ଉତ୍ତର ପାଇଁ
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ALL ODISHA MATH PYQ

E- Book (PDF)

**All Odisha Exam Previous Year Chapter Wise MATH
Question & Explanation**

(ODIA & ENGLISH Language)

[Exam- OSSSC, OSSC, OPSC, Police SI / Constable, Battalion, Fireman, Jail Warder, B.ED, RHT, CT, JT, OSSTET, OAVS, OSSSC (PEO, RI, ARI, JA, LSI, OFDC, Group C)]

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Features Of "MATH" Chapter Wise E-Book

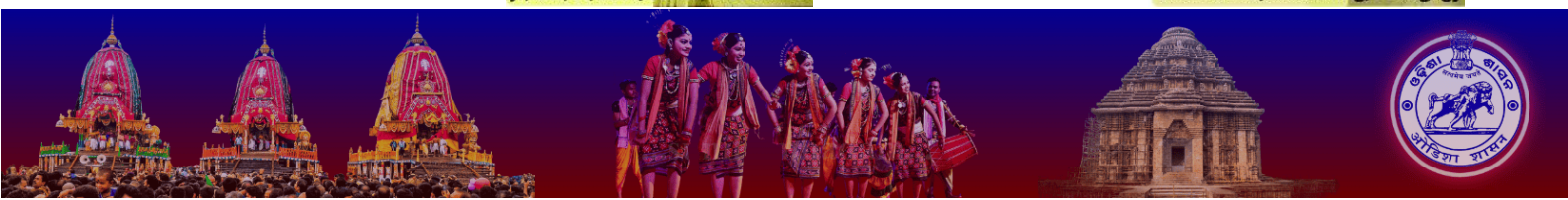
Total PYQ	9,673
Total Topic	49 (With Explanation & Answer Key)
Language	Odia & English
Best For	All Odisha Exam- OSSSC, OSSC, OPSC, Police SI / Constable, OSAP IRB, Fireman, Jail Warder, B.ED, RHT, CT, JT, OSSTET, OAVS, OSSSC (PEO, RI, ARI, JA, LSI, OFDC, Group C) & Other Exams
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MATH- ଓଡ଼ିଶାର
ସମସ୍ତ ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ
9,673- PYQ
ଓଡ଼ିଆ ଓ ଇଂରାଜୀ ଭାଷାରେ
EXPLANATION
OSSSC , OSSC , OPSC, Police SI
PEO, RI, Battalion, Fireman, B.ED
JT, RHT, CT, OAVS, OSSTET, OTET & Other



COMBO - ଓଡ଼ିଶା
ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ
52,134 - PYQ
1,264 - TEST
ପୂର୍ବ 10 ବର୍ଷର
OSSSC, OSSC, OPSC,
ପୋଲିସ୍, CT, B.ED, RHT
**GK, ODIA, ENGLISH, MATH,
COMPUTER, Reasoning, Pedagogy**



Sl. No.	Topic	No. Of MCQ
1	Average	531
2	Percentage	578
3	Partnership	184
4	Mixture & Allegation	237
5	Ratio & Proportion	438
6	Time & Work	466
7	Compound Interest	241
8	Profit & Loss	482
9	Simple Interest	304
10	Speed, Time & Distance	403
11	Simplification	664
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13	Boat & Stream	53
14	Tax	55
15	Decimal & Fractions	61
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17	DI- Bar Graph	230
18	DI- Caselet	89
19	DI- Data Sufficiency	59
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34	Square & Cube Root	161
35	Number System	282
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37	Permutation & Combination	31
38	Sets & Union	99
39	Trigonometry	101
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48	Sequences and Series	38
49	Math Pedagogy	28
Total		9,673





All These Questions Have Been Updated In Combo E-Book

OSSSC Previous Year Questions (PYQ)		
Sl. No.	Exam Name	Year
1	OSSSC LSI, FG, FORESTER	2024
2	OSSSC RI	2021, 2015
3	OSSSC PEO & JA	2023
4	OSSSC CRE (ARI, AMIN, SFS, FG, EXCISE CONSTABLE)	2022
5	OSSSC JUNIOR CLERK	2018, 2017, 2015
6	OSSSC LSI	2021
7	OSSSC ICDS Supervisor	2016
8	OSSSC Excise Constable	2019, 2014
9	OSSSC VAW	2016
10	OSSSC Jr. Stenographer	2015
11	OSSSC Laboratory Technician	2021
12	OSSSC MPHWH	2023
13	OSSSC Nursing	2023, 2020
14	OSSSC SFS	2016
15	OSSSC Pharmacist	2020
16	OSSSC Radiographer	2020





OSSC Previous Year Questions (PYQ)		
Sl. No.	Exam Name	Year
1	OSSC ATO	2024
2	OSSC CHSL Specialist	2024
3	OSSC Assistant Sub-Inspector	2022
4	OSSC Accountant	2022
5	OSSC AMIN	2023 Pre & Mains
6	OSSC BSSO	2022 (All 18 Shifts)
7	OSSC CGL	2024, 2023, 2022 (All 18 Shifts)
8	OSSC CHSL	2024, 2023
9	OSSC CPGL	2023
10	OSSC CTS	2024, 2023
11	OSSC ESI	2023
12	OSSC GPEO	2015
13	OSSC Investigator	2022 (All 3 Shifts)
14	OSSC WEO	2022
15	OSSC JEA	2022 (All 16 Shifts)
16	OSSC JEA & JA	2024 (15 Shifts)
16	OSSC Junior Assistant	2022 (All 10 Shifts)
17	OSSC Junior Clerk	2022
18	OSSC SCEW	2024, 2022 (All 5 Shifts)





19	OSSC SFS	2016
20	OSSC Statistical Assistant	2024
21	OSSC Specialist	2023
22	OSSC Stenographer	2025, 2024, 2023
23	OSSC Supply Inspector	2017
24	OSSC WEO	2022 (All 21 Shifts)

Odisha Police & Defence Previous Year Questions (PYQ)

Sl. No.	Exam Name	Year
1	Odisha Battalion / OSAP IRB	2024 (All 36 Shifts), 2017
2	Odisha Police Constable	2023, 2018, 2013, 2012, 2011
3	Odisha Fireman	2023
4	Odisha Jail Warder	2022 (All 18 Shifts)
	Odisha Police Jr Clerk In DPO	2024 (All 16 Shifts)
5	OPRB SI Police	2023, 2022 (All 11 Shifts), 2019, 2017, 2016
6	OSSC Excise SI	2022, 2021 (All 9 Shifts)
7	OSSC Traffic Constable	2024, 2022 (All 6 Shifts)
8	OSSC Traffic SI	2022 (All 4 Shifts)





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OPSC Previous Year Questions (PYQ)

Sl. No.	Exam Name	Year
1	OPSC ASO	2024, 2022, 2019, 2015, 2014
2	OPSC OMAS	2023, 2019
3	OPSC Junior Asst.	2024
4	OPSC OAS	Only Odisha GK Taken From All Previous Year Preliminary Exams
5	OPSC Assistant Director Of Fatory & Boiler	2023 Pre (Only Odisha GK Taken)
6	OPSC Asst Director Handicraft	2023 Pre (Only Odisha GK Taken)

Odisha High Court Previous Year Questions (PYQ)

Sl. No.	Exam Name	Year
1	OHC ASO	2024, 2023, 2023 (ST Special), 2021

Odisha Forest Development Corporation Previous Year Questions (PYQ)

Sl. No.	Exam Name	Year
1	OFDC Field Assistant	2021





Odisha Teaching Exams Previous Year Questions (PYQ)		
Sl. No.	Exam Name	Year
1	CT	2023 (All 11 Shifts)
		2020 (All 20 Shifts)
		2019 (All 24 Shifts)
		2018 (All 23 Shifts)
2	OTET	2022
3	JT	2023 (All 14 Shifts)
B.ED Entrance Exam		
4	➤ ARTS & SCIENCE	2025
		2024
		2023
		2022
		2021 (All 15 Shifts)
		2020 (All 13 Shifts)
		2019 (All 15 Shifts)
		2018 (All 11 Shifts)
5	OSSTET (ARTS, CBZ & PCM)	2025, 2024, 2022, 2021 (1 st), 2021 (2 nd), 2019, 2018
6	SSB (ARTS, CBZ & PCM)	2024
7	LTR (ARTS, PCM, CBZ)	2024
RHT (High School Teacher)		
8	➤ RHT ARTS	2023 Mains
		2023 Pre (All 3 Shifts)
		2022 (All 6 Shifts)
		2021 (All 3 Shifts)
		2019
	➤ RHT CBZ	2023 Mains
		2023 Pre (All 3 Shifts)
		2022 (All 3 Shifts)
		2021
		2019
	➤ RHT PCM	2023 Mains
		2023 Pre (All 3 Shifts)





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		2022 (All 4 Shifts)
		2021 (All 2 Shifts)
		2019 (All 2 Shifts)
	OAVS	
9	OAVS TGT ODIA	2021, 2019, 2019
	OAVS TGT ENGLISH	2019
	OAVS TGT SOCIAL STUDIES	2023, 2021, 2019
	OAVS TGT SCIENCE	2021, 2019
	OAVS TGT MATH	2023, 2019





Topic Name- Percentage

1- What percent of 1692 is 423?

1692 ର କେତେ ଶତକଡ଼ା 423 ଅଟେ?

[OSSC RHT High School Teacher 2023]

- (A) 35
- (B) 20
- (C) 30
- (D) 25

Ans- D

Formula:

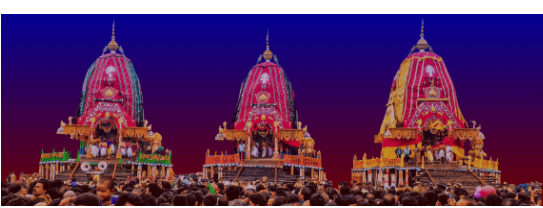
$$\rightarrow \text{Percentage} = \frac{\text{Part}}{\text{Whole}} \times 100$$

Solution:

$$\rightarrow \frac{423}{1692} \times 100 = 25\%$$

Final Conclusion:

→ 423 is **25%** of 1692.



2- My income is Rs 1200 per month. If I save 20% of it every month, how much I shall save in a year?

- ମୋର ରୋଜଗାର ମାସିକ ୧୨୦୦ ଟଙ୍କା । ଯଦି ମୁଁ ପ୍ରତି ମାସରେ ଏହାର ୨୦% ସଞ୍ଚୟ କରେ, ତେବେ ମୁଁ ବର୍ଷକୁ କେତେ ସଞ୍ଚୟ କରିବି?

[Odisha Jail Warder 2022]

- A. Rs 240
- B. Rs 2880
- C. Rs 1440
- D. Rs 120

Ans- B

Given:

→ Monthly income = ₹1200

→ Savings = 20%

Formula:

→ Savings per month = $1200 \times \frac{20}{100} = ₹240$

→ Annual savings = ₹240 x 12

Solution:

→ Annual savings = ₹2880

Final Conclusion:

→ The amount saved in a year is ₹2880.



3- If the given two numbers are respectively 6% and 24% of a third number, then what percentage is the first number of the second number

- ଯଦି ଦିଆଯାଇଥିବା ଦୁଇଟି ସଂଖ୍ୟା ତୃତୀୟ ସଂଖ୍ୟାର ଯଥାକ୍ରମେ 6% ଏବଂ 24% ଅଟେ, ତେବେ ତୃତୀୟ ସଂଖ୍ୟାର ପ୍ରଥମ ସଂଖ୍ୟା କେତେ ପ୍ରତିଶତ ଅଟେ

[OSSSC Livestock Inspector 2021]

- (A) 15%
- (B) 20%
- (C) 25%
- (D) None of these

Ans- C

Given:

→ Two numbers are 6% and 24% of a third number.

Formula:

→ First number $A = 6\% \times \text{Third Number}$

→ Second number $B = 24\% \times \text{Third Number}$

→ The required percentage = $\frac{A}{B} \times 100$

Solution:

→ First number $A = 0.06 \times \text{Third Number}$

→ Second number $B = 0.24 \times \text{Third Number}$

→ $\frac{A}{B} \times 100 = \frac{0.06}{0.24} \times 100 = 25\%$



4- If a number is increased by 25% and then decreased by 25%, find out the percentage of increase/decrease of final value of the number.

- ଯଦି କୌଣସି ସଂଖ୍ୟା 25% ବୃଦ୍ଧି କରାଯାଏ ଏବଂ ପରେ 25% ହ୍ରାସ କରାଯାଏ, ତେବେ ସଂଖ୍ୟାର ଚୂଡ଼ାନ୍ତ ମୂଲ୍ୟର ବୃଦ୍ଧି/ହ୍ରାସର ପ୍ରତିଶତ ଜାଣନ୍ତୁ।

[OSSSC RI Exam 2021]

- (A) Increase by 6.25 %
- (B) Decrease by 6.25%
- (C) Increase by 9.25 %
- (D) Decrease by 9.25 %

Ans- B

Given:

→ Initial percentage increase: $A = +25\%$

→ Percentage decrease: $B = -25\%$

Formula:

→ Net percentage change = $A + B + \frac{AB}{100}$

Solution:

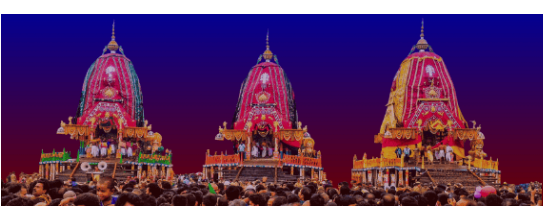
→ Net percentage change = $25 + (-25) + \frac{(25) \times (-25)}{100}$

→ Net percentage change = $0 + \frac{-625}{100}$

→ Net percentage change = -6.25%

Final Result:

→ The final value of the number decreases by **6.25%**.



5- In an examination, there were 600 boys and 400 girls. 60% of boys and 50% of girls passed. The percentage of candidates that failed is:

- ଗୋଟିଏ ପରୀକ୍ଷାରେ ୬୦୦ ବାଳକ ଓ ୪୦୦ ଝିଅ ଥିଲେ। ୬୦% ପୁଅ ଓ ୫୦% ଝିଅ ପାସ୍ କରିଛନ୍ତି। ଫେଲ୍ ହୋଇଥିବା ପ୍ରାର୍ଥୀଙ୍କ ପ୍ରତିଶତ ହେଉଛି:

[OSSSC Combined Recruitment 2022]

- (A) 50%
- (B) 55%
- (C) 40%
- (D) 44%

Ans- D

Given:

- Total boys = 600
- Total girls = 400
- 60% of boys passed
- 50% of girls passed

Calculation:

- Boys who passed = $600 \times \frac{60}{100} = 360$
- Boys who failed = $600 - 360 = 240$
- Girls who passed = $400 \times \frac{50}{100} = 200$
- Girls who failed = $400 - 200 = 200$
- Total candidates = $600 + 400 = 1000$
- Total failed = $240 + 200 = 440$
- Percentage failed = $\frac{440}{1000} \times 100 = 44\%$



6- 2600 candidates appeared for an examination, of which 2184 passed. Find the pass percentage.

୨୬୦୦ ପରୀକ୍ଷାର୍ଥୀ ପରୀକ୍ଷା ଦେଇଥିବା ବେଳେ ସେମାନଙ୍କ ମଧ୍ୟରୁ ୨୧୮୪ ଜଣ ପାସ୍ କରିଛନ୍ତି। ପାସ୍ ପ୍ରତିଶତ ନିର୍ଦ୍ଧାରଣ କରନ୍ତୁ।

[Odisha Police ASI 2022]

(A) 92%

(B) 80%

(C) 84%

(D) 88%

Ans- C

Given:

→ Total candidates = 2600

→ Passed candidates = 2184

Formula:

→ Pass percentage = $\frac{\text{Passed Candidates}}{\text{Total Candidates}} \times 100$

Calculation:

→ Pass percentage = $\frac{2184}{2600} \times 100 = 84\%$

Final Conclusion:

→ The pass percentage is **84%**.



7- What percent of 11.4 kg is 3078 gms?

- 11.4 କିଲୋଗ୍ରାମର କେତେ ପ୍ରତିଶତ 3078 ଗ୍ରାମ?

[OSSC Traffic SI 2022 Exam]

(A) 29

(B) 23

(C) 27

(D) 25

Ans- C

Given:

→ Total weight = 11.4 kg = 11,400 grams

→ Part weight = 3078 grams

Formula:

→ Percentage = $\frac{\text{Part}}{\text{Total}} \times 100$

Calculation:

→ Percentage = $\frac{3078}{11,400} \times 100 = 27\%$

Final Conclusion:

→ 3078 grams is **27%** of 11.4 kg.



8- The salary of X, Y and Z are in the ratio 5:3: 1. The salary of X and Y together is Rs 7200. By what percent is salary of X more than that of Z?

- X, Y ଏବଂ Z ର ଦରମା 5: 3: 1 ଅନୁପାତରେ ଅଛି । X ଏବଂ Y ମିଳିତ ଦରମା ହେଉଛି ୭୨୦୦ ଟଙ୍କା । Z ତୁଳନାରେ X ର ଦରମା କେତେ ପ୍ରତିଶତ ଅଧିକ?

[OSSSC RI Exam 2021]

- (A) 100%
- (B) 200%
- (C) 300%
- (D) 400%

Ans- D

Given:

- The ratio of the salaries of X, Y, and Z is 5:3:1.
- The sum of X and Y's salaries is ₹7200.

Calculation:

- Let the salaries of X, Y, and Z be $5x$, $3x$, and x respectively.
- $5x + 3x = 7200$
- $8x = 7200$
- $x = 900$
- Salary of X = $5x = 4500$
- Salary of Z = $x = 900$
- Percentage increase of X's salary over Z's salary = $\frac{4500-900}{900} \times 100 = 400\%$

Final Conclusion:

- X's salary is **400%** more than Z's.



9- Rakesh spends 15% of his monthly income on his household expenditure, 20% on books, 30% on clothes and saves the rest. On counting, he comes to know that he has finally saved Rs.12565. Find his monthly income. (In Rs.)

- ରାକେଶ ତାଙ୍କ ମାସିକ ଆୟର ୧୫% ଘର ଖର୍ଚ୍ଚ, ୨୦% ବହି, ୩୦% ପୋଷାକ ପାଇଁ ଖର୍ଚ୍ଚ କରନ୍ତି ଏବଂ ବାକି ସଞ୍ଚୟ କରନ୍ତି । ଗଣନା କରିବା ପରେ, ସେ ଜାଣିବାକୁ ପାଇଲେ ଯେ ସେ ଶେଷରେ 12565 ଟଙ୍କା ସଞ୍ଚୟ କରିଛନ୍ତି । ତାଙ୍କର ମାସିକ ଆୟ ସନ୍ଧାନ କରନ୍ତୁ । (ଟଙ୍କାରେ)

[OSSC CGL Exam 2022]

- (A) 35900
- (B) 36900
- (C) 37900
- (D) 34900

Ans- A

Given:

- Savings = ₹12,565
- He spends 15% on household, 20% on books, and 30% on clothes.
- Total spending = 15% + 20% + 30% = 65%
- Savings = 100% – 65% = 35%

Formula:

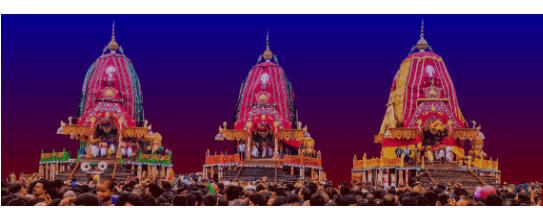
- Savings = 35% of monthly income
- Monthly income = $\frac{\text{Savings} \times 100}{35}$

Calculation:

- Monthly income = $\frac{12,565 \times 100}{35} = 35,900$

Final Conclusion:

- Rakesh's monthly income is **₹35,900**.



10- After 5060 liters of petrol were poured into the tank, it was still 12% empty. What is the total capacity of the tank? (In liters)

- ଟାଙ୍କିରେ ୫୦୬୦ ଲିଟର ପେଟ୍ରୋଲ ଢାଳିବା ପରେ ମଧ୍ୟ ତାହା ୧୨ ପ୍ରତିଶତ ଖାଲି ରହିଥିଲା । ଟାଙ୍କିର ସମ୍ପୂର୍ଣ୍ଣ କ୍ଷମତା କେତେ? (ଲିଟରରେ)

[OSSC Excise SI 2021]

(A) 5750

(B) 5550

(C) 5450

(D) 5650

Ans- A

Given:

→ 5,060 liters poured.

→ 12% of the tank is still empty.

Formula:

→ Total capacity = $\frac{\text{Amount poured}}{1 - \text{Percentage empty}}$

Solution:

→ Total capacity = $\frac{5,060}{1 - 0.12} = \frac{5,060}{0.88} = 5,750$

Final Conclusion:

→ The total capacity of the tank is **5,750 liters**.





11- If 25% of a certain number is 1875, then what is 80% of that number?

ଯଦି ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ ସଂଖ୍ୟାର ୨୫% ୧୮୭୫, ତେବେ ସେହି ସଂଖ୍ୟାର ୮୦% କେତେ?

[OSSC SCEW 2022]

- (A) 6000
- (B) 6200
- (C) 6100
- (D) 6300

Ans- A

Given:

- 25% of a certain number is 1875.
- Find 80% of that number.

Solution:

- Let the number be N .
- According to the question:
 $0.25N = 1875$
- Solving for N :

$$N = \frac{1875}{0.25} = 7500$$

- Now, 80% of N is:
 $0.80 \times 7500 = 6000$



12. Ram secures 50% and Shyam secures 30% of the total marks in an examination. If the difference between the marks secured by both of them is 40, what is the total marks ?

ରାମ ଏକ ପରୀକ୍ଷାରେ ମୋଟ ମାର୍କର ୫୦% ଏବଂ ଶ୍ୟାମ ୩୦% ମାର୍କ ହାସଲ କରନ୍ତି । ଯଦି ଦୁହେଁ ହାସଲ କରିଥିବା ମାର୍କ ମଧ୍ୟରେ ପାର୍ଥକ୍ୟ ୪୦, ତେବେ ସମୁଦାୟ ମାର୍କ କେତେ ?

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- (A) 100
- (B) 500
- (C) 300
- (D) 200

Ans- D

Given:

- Ram's percentage = 50%
- Shyam's percentage = 30%
- Difference in marks = 40

Formula:

- Difference in marks = 50% – 30% = 20%
- Total marks = $\frac{\text{Difference in marks}}{20\%}$

Solution:

- Total marks = $\frac{40}{0.20} = 200$

Final Conclusion:

- The total marks are **200**.

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