

Tripura Public Service Commission

TRIPURA MATHS



Set - 9

16 states completed

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Vasudeo_godara

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**SSC CGL Mains
maths score
200 out of 200**



By Vasudeo godara

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The price of sugar is increased by 20%. A person wants to increase his expenditure by 8% only. By what percent should be decreased his consumption ?

यदि चीनी के मूल्य में 20% की वृद्धि हो जाती है और कोई व्यक्ति अपने खर्च में केवल 8% की ही वृद्धि करना चाहता है, तो उसे अपनी खपत में कितने प्रतिशत की कमी करनी होगी?

- (a) 11% (b) 9% (c) 10% (d) 12%**

A train without stoppage travels with an average speed of 50 km/h, and with stoppage, it travels with an average speed of 40 km/h. For how many minutes does the train stop on an average per hour ?

एक रेलगाड़ी बिना रुके (स्टॉपेज) 50 किमी./घंटा की औसत गति से और रुकने के साथ 40 किमी./घंटा की औसत गति से चलती है। रेलगाड़ी, औसतन प्रति घंटा कितने मिनट रुकती है?

(a) 15 (b) 14 (c) 12 (d) 13

The difference between the compound interest and simple interest on ₹ x at 9% per annum for 2 years is ₹ 20.25. What is the value of x ?

₹ x की एक राशि पर 9% प्रतिशत की दर से दो वर्ष के लिए चक्रवृद्धि ब्याज और साधारण ब्याज का अंतर ₹ 20.25 है। ₹ x का मान क्या होगा?

- (a) ₹ 2,500 (b) ₹ 2,200 (c) ₹ 2,400 (d) ₹ 2,800

Two article are sold for ₹10,384 each. On one, the seller gains 18% and on the other, he loses 12%. What is his overall gain or loss ?

दो वस्तुओं में से प्रत्येक को 10,384 की कीमत पर बेचा जाता है। उनमें से एक वस्तु पर विक्रेता को 18% लाभ होता है और दूसरी वस्तु पर 12% की हानि होती है। विक्रेता को कुल मिलाकर कितने रुपए का लाभ अथवा हानि हुई?

- (a) 168 gain/लाभ (b) 178 loss/हानि (c) 168 loss/हानि (d) 178 gain/लाभ

A and B spend 60% and 75% of their income, respectively. If the saving of A is 20% more than that of B, then by what percentage is the income of A less than the income of B?

[illegible]

- a) 15 b) 20 c) 10 d) 25**

If a sum of 1180 is to be divided among A, B and C, such that 2 times A's share, 5 times B's share and 7 times C's share, are equal, then A's share is:

□□□ 1180 □□ □□□□ □□ A, B □□ C □□ □□□ □□□□□□□ □□□□ □□□□ □□,
□□□□ □□ 2 □□□□ A □□ □□□□□□, 5 □□□□ B □□ □□□□□□ □□ 7 □□□□ C
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a) 700 b) 500 c) 650 d) 750

The average of 60 student's results in 38. If the average of the first 22 students is 36, and that of the last 32 students is 32, then the average result of the remaining student is:

60 □□□□□□□□ □□□□□□□□ □□□□□□ **38** □□□□□□□□□□ **22** □□□□□□□□□□
 □□□ **36** □□□□□□□□□□ **32** □□□□□□□□□□ □□□□□□ **32** □□□□□□□□□□□□□□
 □□□□□□□□□□□□□□□□□□?

- a) 77.33 b) 65.30 c) 81.9 d) 52.12**

A dealer marks an article 40% above the cost price and sells it to a customer, allowing two successive discounts of 20% and 25% on the marked price. If he suffers a loss of 140 rupees. Then, the cost price (in rupees) of the article is:-

□□ □□□□ □□□□ □□□□□ □□ □□□□□, □□□□ □□□□□ □□ **40%** □□□□□□
□□□□□ □□□□ □□ □□ □□□ □□□□□ □□□□□ □□ **20%** □□ **25%** □□ □□
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□□□□□:

- a) 840 b) 872 c) 900 d) 875

A and B start moving towards each other from places X and Y, respectively, at the same time. The speed of A is 20% more than that of B. after meeting on the way, A and B take 212 hours and x hours, now to reach Y and X, respectively. What is the value of x?

A □□ B □□ □□ □□□ □□ □□□□□: X □□ Y □□□□□□□ □□ □□ □□□□□ □□ □□
 □□□□□ □□□ □□□□ □□□□ □□□□ □□□ A □□ □□□ B □□ □□□ □□ 20%
 □□□□ □□□ □□□□□□ □□□ □□□□□ □□ □□□, A □□ B □□ □□□□□: Y □□ X
 □□ □□□□□□□ □□□ $2\frac{1}{2}$ □□□□ □□ x □□□□ □□□□ □□□ x □□ □□□ □□□□
 □□?

- a) $3\frac{1}{2}$ b) $3\frac{2}{3}$ c) $3\frac{2}{5}$ d) $3\frac{3}{5}$

A dealer sold 6 sewing machines for 63000 with a profit of 5%. For how much should he sell 8 machines, if he intends to earn 15% profit?

□□ □□□□□□□□ □□ □□. **63,000** □□□ **6** □□□□□ □□□□□□ □□□□ □□ □□□ **5**
□□□□□□□□ □□ □□□ □□□□ □□□ □□ **15** □□□□□□□ □□□ □□□□□□ □□□□
□□□□□ □□, □□ □□□ **8** □□□□□□ □□□□□ □□□ □□□□□ □□□□□?

- a) **88200** b) **69300** c) **92000** d) **92400**

The simple interest on a certain sum at the end of three years at 5% p.a. is 1200 rupees. The compound interest on the same sum for the same period at the same rate is (interest compound yearly)

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p.a. $\square\square \square\square \square\square \mathbf{1200} \square\square\square\square\square \square\square\square \square\square\square\square \square\square \square\square \square\square\square\square \square\square\square\square \square\square \square\square\square$
 $\square\square\square\square \square\square\square\square \square\square \square\square\square\square\square\square\square\square\square\square \square\square\square\square\square\square (\square\square\square\square\square\square\square \square\square\square\square\square\square\square\square\square\square$
 $\square\square\square\square\square) \square\square\square\square \square\square\square\square?$

- a) 1800 b) 1261 c) 820 d) 1260

When 732 is divided by a positive integer x , the remainder is 12. How many values of x are there?

732 x

[illegible]

- a) 19 b) 20 c) 18 d) 16**