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1. $x^{2a} = y^{2b} = z^{2c}$ $x^2 = yz$ $x, y, z \neq 0$ Find (ab+bc+ca)/bc

2. If Principal amount 4300 become 4630 in two years. Then at same interest rate what principal will amount to 10140 in 5 years Simple interest.

3. The number of days taken by A,B,C to do a work separately are 10,15 and 20 days. If B and C work for 3 days, the remaining work will be completed by A in how much time.

4. If MP =2245 and discount of 28% is given there is profit of 12% .Find CP

5. If $x-y = 4$, $xy=45$, Find x^3-y^3 =?

6. The ratio of radius of 2 cylinder is 3:4 Ratio of heights equal 4:9. Find ratio of volume.

7. If $A + B = 45^0$, find $2(1+\tan A)(1+\tan B)$

8. $x = 4\cos A + 5\sin A$

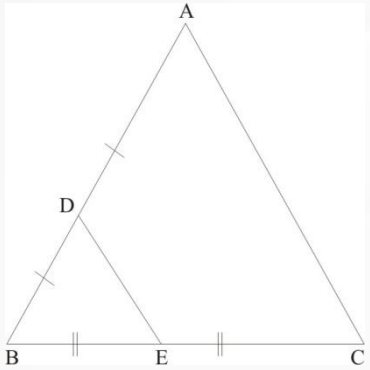
$y = 4\sin A - 5\cos A$

Find $x^2 + y^2$

9. Length of rectangle is increased by 40% breadth is decreased by 20% .Find change in Area

10. A person sells some articles at 10% loss. If he sells them at 20% profit. He will earn 332 Rs. extra. Find original SP.

11.



area Δ ABC = 44

area ΔBDE =?

12. x+y =8, y+2=13 , z+x=17 find $\frac{x^2}{y^2}$ =?

13. $6 \tan A = 5$ $\frac{8 \sin A - 4 \cos A}{\cos A - 2 \sin A} = ?$

14. If 1005x4 is divisible by 8 the find x

15. A train crosses a pole in 18sec.if same train crosses a bridge of 170cm in 36 seconds. Then find speed train?

16. If S.I for 3 years at 5% is 1200 then find the compound interest for same rate and same time?

17. Find the length of the chord which is at 3 cm distance from the centre of the circle whose radius is 5cm

18.If A can do a work in 25 days and B can do it in 20 days. B left after working for 4 days. Find the number of days A will complete the remaining work.

19. A shopkeeper marked up an article by 40 % and then gave the discount of 20%. Find the overall profit.

20. Find the curved surface area of hemisphere which has radius of 7 cm.

21. Two Boys with speeds of 100m/min and 120m/min run a race. The faster boy takes 10 minutes less than the other. Find the distance of the Race.

22. Find the value (tan30+tan60)/cos30

23. A person sell an article at 25% profit. If CP is increased by 20% and SP is increase by 10%. Find new profit.

24. If the rate of interest is 10% per annum and the compound interest for 2.33 years is 1322. Find the principal

25. A can do a piece of work in 40 days. Efficiency of B is 25% more than the A. Efficiency of C is 28% more than A. If three of them worked for 5 days. Find the number of days B will take to complete the remaining work.

26. A shopkeeper Marks up the price by 40%. If he gives successive discounts of 20% and 25%. Find the overall profit percentage.

MATHS QUESTIONS ASKED IN SSC CGL 2020 | 3 MARCH 2020 | ALL SHIFTS

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