

4. The sides of triangle are 50 cm, 75 cm and 112 cm. What is the smallest altitude?

??? ????????? ?????? ????????? ?????? 50 ??., 75 ??., ??? 112 ??.? ? ????????? ??? ????????????? ?????? ??????

5. A and B can finish work in 16 days while A alone can do the same work in 24 days. In how many days B alone can finish the same work?

A ??? B ?? ?????? ??? ??? 16 ?????? ?????? ????, ??? A ?? ????? 24 ?????? ?????? ????, B ? ????? ?????? ?????? ??? ?????? ?????? ??????

6. Find the angle between the hour hand and the minute hand of a clock at 3.25 hours?

3.25 ????? ?????? ?????? ??? ?????? ?????? ?????? ?????? ?????? ?????? ??????

7. Ramesh bought a second hand type writer for Rs. 1200 and spent Rs. 200 on its repair. He sold it for Rs. 1680. Find profit or loss percent.

????? ??? ?????? ?????? 1200 ?????? ?????? 200 ??? ?????????? ??? ?????? ?????? 1680 ?????? ?????? ?????? ??? ?? ?????????? ?????? ?????? ??????

8. Steve traveled the first 2 hours of his journey at 40 mph and the remaining 3 hours of his journey at 80 mph. What is his average speed for entire journey?

?????? ?????? ????????? 40 ?????? ?????????????? ?????? ?????????? ?????? ?????? ??? ??? ?????? ?????? 80 ?????? ?????????????? ?????? ?????????? ?????? ?????? ?????? ?????? ?????? ??????

9. Two trains started from the same point. At 8:00 am the first train travelled East at the rate of 80 miles per hour. At 9:00 am the second train travelled West at the rate of 100 miles/hour. At what time were they 530 miles apart?

????? ?????? ??? ?????????? ?????? ??? ?????? ?????? ?????? 8:00 ?????? ?????? ?????????? ?????? ?????? ?????? 80 ?????? ?????? ?????? ?????? ?????????? ?????????? ?????? ?????? 9:00 ?????? ?????????? ?????? ??? ?????? 100 ?????? ?????? ?????? ?????? ?????? ?????? ?????? ?????? ?????? ?????? 530 ?????? ?????? ??????

10. A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day?

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11. Find the number of rectangles on a chess board.

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12. If the ratio of two numbers is 2:1 and their product is 1800, then find the greater number.

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13. The traffic light at three different road crossing, change after 24 sec, 72 sec and 120 sec respectively. If they all change simultaneously at 10:50:00 hours, determine the time of next simultaneous change.

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14. If $a = \frac{7}{13}, b = \frac{11}{15}$ and $c = \frac{14}{27}$, arrange a,b,c in ascending order.

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15. The sides of two squares are 12m and 5m respectively. Find the sides of a square whose area is equal to the sum of the areas of these two squares.

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16. Express $[(3^2)^6]^4$ as power of 9.

\$\$\$(((3)^2)^6)^4\$\$\$? 9 ? ??? ?????? ?????? ????

17. In a college, the ratio of boys to girls is 31:23. When 75 more girls join the college, the ratio becomes 124:107. How many more girls should join the college to make number of boys and girls equal.

??? ?????????????? ?????? ?? ?????????? ??????? 31:23 ? 75 ?????? ?????????? ??????? ?? ?????????? ??????
?????-????????? ??????? ?? 124:107 ? ??????? ?????????? ?????????? ??????? ?????? ???? ?????? ??????
????????? ?????????? ?????? ???????

18. A 280 metres long train, travelling at a uniform speed, crosses a platform in 60 seconds and a man standing on the platform in 20 seconds. Determine the length of the platform.

280 ?? . ?????????? ??????? ?????? ?????? ?????????? ?????????????? ?? ??? ?????? ?????? 20 ?????????? ??????????
??? ??? ?????????????? 60 ?????????? ?????????? ?????? ?????? ?????????????????? ?????? ?????????? ??????

19. A triangle has two of its angles in the ratio of 1:2. If the measure of one of its angles is 30 degrees, what is the measure of the largest angle of the triangle in degree?

??? ?????????? ?????? ?????? ?????????? ??????? 1:2 ? ??? ??? ?????? ??????? 30 ???????, ?????????? ?????? ???????
????????? ?????????? ?????????? ??????

20. In how many different ways can the number '256974' be arranged, using each digit only once in each arrangement, such that the digits 6 and 5 are at the extreme ends in each arrangements?

????? ?????? ??????? '256974' ?????????? ?????????? ?????? ?????? ?????? ?????????? ??? ?????? ???????
????????? ?? ??? 6 ??? 5 ??????? ?????? ?????????? ?????????? ?????? ?????? ??????

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