

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?

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?????? 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 ? ??????? ??????? ?????????? ??????? ?????? ???? ?????? ??????
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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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