Salutation to your solution!

- Sudhakar Attili.

1. There are two cars approaching each other. If they are 1050 meters apart and travelling at a velocity of 54 kmph (kilometers/hour) and 72 kmph respectively, how long will it take for them to meet? [Hint: 1kmph = (5/18)meters/sec]

2. Can you find a square having its area equal to its perimeter? Is it possible to find a rectangle having its area equal to its perimeter?

3. Find a number such that the sum of it and its reciprocal is equal to a whole number?

4. A person climbs a mountain walking 1300meters (slant surface). After reaching the top he realized the base of the mountain looks like a circle. The altitude of the mountain from base is 500meters. If a path is laid around the mountain base, what is the length of the path?

5. There are 5 cylindrical tins with lid such a way that one fits exactly into another. The diameter of the outer tin and inner tin being 8inches and 4 inches respectively, the heights of outer and inner tins being 9inches and 5 inches respectively and the thickness of the tin being half an inch, What is the volume of the middle tin?

6. If $(27)^{n/3} = 9^{5/2}$, what is the value of n?

7. A cylindrical solid wood piece having diameter 14mm and height 5cm is cut on sides to make it a hexagonal prism of diameter 14mm. What is the volume of the cut material? [Assume π is 22/7]

8. If $a^b = c$; $b^c = d$; $c^d = a$, then what is the value of bd?

You can send your answers either by post or by e-mail to the below address on or before March 15th.

Mailing Address:
Editor, Sanghamitra,
12176 Vivacite Walk, Apt# B
Saint Louis, MO 63146.
e-mail : susri@sanghamitra.org

Can you figure out?
How do you read 'KT R ST'?
See the answer with a magnifying glass here ➔ Kате or City