Salutation to your solution!

- Sudhakar Attili.

1. There are two water pumps A and B, which fills in a tank. There is another pump C, which drains the tank. Pump A can fill the tank in 9 hours. Pump B can fill the tank in 10 hours. Pump C can drain the tank in 5 hours. After pumping 2 hours using A and B, C also started pumping out water. How long will it take (including the first 2 hours) for the pumps to fill in the tank fully?

2. A professor's age is 24 years more than his son. His son is 25 years elder to his grand son. The professor's age and grand son's age together comes to 73. Can you find the age of Professor?

3. Find the number in the place of '?' shown below.
   1, 2, ?, 15, 52.5, 210, 945

4. There is a 4 digit number. If it is divided by 9, thousands' place disappeared. Hundreds' place is gone when the resulting number is divided by 5. Tens' place is no more when divided by 15. Finally 5 is the result. What is the 4 digit number?

5. There is a tent in the shape of a cone mounted on a cylinder as shown in the figure A. The diameter of the cylinder and cone shapes is 2.1 m. Height of cylindrical part is 3m and conical part is 1.5 m. Find the area of the canvas required for the construction.

Figure A

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

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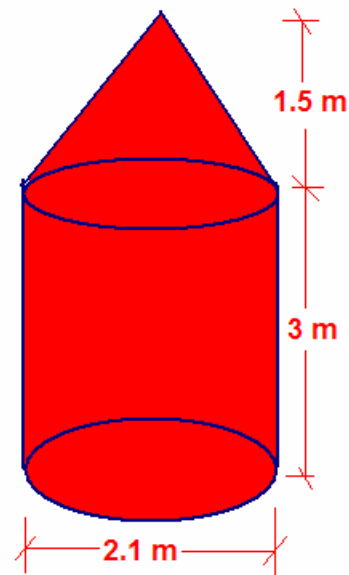MO 63146.
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