

01 A heap of stones can be made up into groups of 21. When made up into groups of 16, 20, 25 and 45, there are 3 stones left in each case. How many stones at least can there be in the heap ?

Your solution here:

02 How many 4-digit numbers are multiples of 4 and 5 ?

Your solution here:

03

A five digit number $7a69b$ is a multiple of 18. Find the digits a and b if the number is to be as small as possible.

Your solution here:

04

At bus depot, bus A leaves every 20 minutes, bus B leaves every 15 minutes and bus C leaves every 12 minutes. If the three buses leave together at 7: 30 a.m. When will they next leave the bus depot together again ?

Your solution here:

05

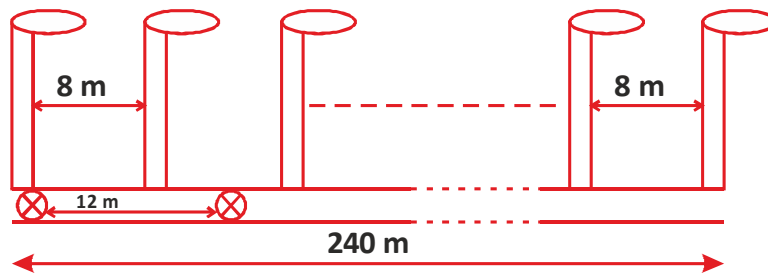
45 students from India, 60 from China and 30 from Japan attend an Asian Students' Conference.

- (i) What is the greatest number of discussion groups that can be formed such that the students from each country are distributed equally among all the groups ?
- (ii) How many students from each country will there be in each group ?

Your solution here:

06

Lamp poles are installed along the road side on every 8 m. Markings are made on the road side on every 12 m. How many markings are made besides the lamp poles along a 240 m long road.



Your solution here:

07 Manu has two electronic beepers. One of them beeps every 4 seconds; the other beeps every 9 seconds. If they are turned on at exactly the same time, how many times during the next hour will both beepers beep at the same time ?

Your solution here:

08 When a 3-digit number is written two times, it becomes a 6-digit number. Show that it can be divisible by 7.

Your solution here: