Chapter 1

Real Numbers

Assessment based on Exercise 1.2 Question 7

Question 1:

In a seminar, the number of participants in Hindi, English, and Mathematics are 60, 84 and 108, respectively. Find the minimum number of rooms requried if in each room the same number of participants are be to be seated and all of them being in the same subject.

Solution:

Question 2:

There are 156, 208 and 260 students in Groups A, B and C respectively. Buses are to be hired to take them for a field trip. Find the minimum number of buses to be hired, if the same number of students should be accommodated in each bus.

Solution:

Chapter 1

Real Numbers

Assessment based on Exercise 1.2 Question 7

Question 3:

Sita takes 35 seconds to pack and label a box containing machines. For Ram, the same job takes 42 seconds and for Geeta, it takes 28 seconds. If they all start using labelling boxes at the same time, after how many seconds will they be labelling the boxes together again?

Solution:

Question 4:

There is a circular path around a sports field. Ram takes 24 minutes to walk one round of the field while Ravi takes 18 minutes for the same. If they both start at the same point, at the same time and go in the same direction, after how many minutes will they meet again at the starting point?

Solution:

Chapter 1

Real Numbers

Assessment based on Exercise 1.2 Question 7

Question 5:

In a school, the duration of a period in junior section is 40 minutes and in senior section is 1 hour. If the first bell for each section rings at 9.00 a.m., when will the two bells ring together again?

Solution:

Question 6:

A merchant has 120 litres of oil of one kind, 180 litres of another kind and 240 litres of third kind. He wants to sell the oil by filling the three kinds of oil in tins of equal capacity. What should be the greatest capacity of such a tin?

Solution:

Chapter 1

Real Numbers

Assessment based on Exercise 1.2 Question 7

Question 7:

The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively. If they change simultaneously at 7 a.m., at what time will they change simultaneously again?

Solution:

Question 8:

The length, breadth and height of a room are 8 m 25 cm, 6 m 75 cm and 4 m 50 cm respectively. Find the length of the longest rod that can measure the three dimensions of the room exactly.

Solution:

Chapter 1

Real number

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Answers

Answer: 1
21.

Answer: 2
12

Answer: 3
420 seconds

Answer: 4
72 minutes

Answer: 5
11:00 a.m.

Answer: 6
60 litres

Answer: 7
7: 07 : 12 a.m.

Answer: 8
75 cm