

Word problem involving the least common multiple of 2 numbers: Worksheet 15.3

Name Date Score

1. The traffic lights at two road junctions change after every 78 seconds and 104 seconds respectively. If they change simultaneously at 10 a.m., at what time will they change simultaneously again?
2. In a morning walk, two persons start off together. Their steps measure 35 cm and 45 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps?
3. Find the greatest number of 4-digits which is exactly divisible by 48 and 60.
4. Morris observed two types of birds traveling: ducks and cranes. While the ducks traveled in flocks of 13, the cranes traveled in flocks of 17. If Morris observed the same total number of ducks and cranes, what is the smallest number of ducks that he could have observed?
5. Joshua wishes to advertise his business, so he distributes packs of 14 yellow flyers and sets of 18 blue flyers. In the evening, Joshua finds that he distributed the same number of yellow and blue flyers. What is the minimum number of flyers of each color?
6. Find the smallest number which, on being added 14 to it, is exactly divisible 42 and 91.
7. Mary is buying crayons (pack of 15) and erasers (pack of 12) from the store. If Mary wishes to purchase the same number of crayons as erasers, what is the smallest number of crayons that she can buy?
8. What is the smallest number that when divided separately by 45, and 75, gives the remainder of 11 in every case?
9. Two bells ring once at the same time. After that, the first bell rings after every 72 minutes, and the second after every 48 minutes. After how many minutes will they again ring together?
10. John and Jane start at the same time in the same direction to run around a stadium. John completes a round in 270 seconds and Jane in 300 seconds, both starting at the same point. After what time will they meet again at the starting point?



Solutions: Worksheet 15.3

1. 10:05:12 a.m.
2. 315 cm
3. 9840
4. 221
5. 126
6. 532
7. 60
8. 236
9. 144 minutes
10. 2700 seconds

