

Word problem involving the least common multiple of 2 numbers: Worksheet 15.1

Name Date Score

1. The traffic lights at two road junctions change after every 72 seconds and 108 seconds respectively. If they change simultaneously at 9 a.m., at what time will they change simultaneously again?
2. Joe strikes the drums every 6 seconds and the cymbals every 13 seconds. If he just struck both at the same time, how many seconds will pass before he again strikes them at the same time?
3. Martha is buying pencils (pack of 18) and pens (pack of 14) from the store. If Martha wishes to purchase the same number of pencils as pens, what is the smallest number of pens that she can buy?
4. Taylor observed two types of birds traveling: ducks and cranes. While the ducks traveled in flocks of 11, the cranes traveled in flocks of 15. If Taylor observed the same total number of ducks and cranes, what is the smallest number of ducks that he could have observed?
5. Jones wishes to market his business, so he distributes packs of 12 green flyers and sets of 16 blue flyers. In the evening, Jones finds that he distributed the same number of green and blue flyers. What is the minimum number of flyers of each color?
6. Find the smallest number which, on being added 24 to it, is exactly divisible 36 and 96.
7. In a morning walk, two persons start off together. Their steps measure 75 cm, and 90 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps?
8. What is the smallest number that when divided separately by 20, and 48, gives the remainder of 9 in every case?
9. Two clocks ring once at the same time. After that, the first clock rings after every 90 minutes, and the second after every 60 minutes. After how many minutes will they again ring together?
10. P and Q start at the same time in the same direction to run around a stadium. P completes a round in 252 seconds and Q in 198 seconds, both starting at the same point. After what time will they meet again at the starting point?



Solutions: Worksheet 15.1

1. 9:03:36 a.m.
2. 78 seconds
3. 126
4. 165
5. 48
6. 264
7. 450 cm
8. 249
9. 180 minutes
10. 2772 seconds

