Word problem involving the least common multiple of 2 numbers: Worksheet 15.2

Name .... Date .... Score ....

1. There are less than 6 dozen eggs in a basket. If the eggs are counted 2, 3, 4, or 5 at a time, there are none left over. How many eggs are there in the basket?

2. Bob strikes the drums every 9 seconds and the cymbals every 12 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. Brenda is buying pencils (pack of 16) and erasers (pack of 12) from the store. If Brenda wishes to purchase the same number of pencils as erasers, what is the smallest number of erasers that she can buy?

4. Bill observed two types of birds in the bushes: sparrows and parrots. While the sparrows were in flocks of 13, the parrots were in flocks of 14. If Bill observed the same total number of sparrows and parrots, what is the smallest number of sparrows that he could have observed?

5. Noah wishes to promote his business, so he distributes packs of 14 green flyers and sets of 18 blue flyers. In the evening, Noah 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 23 to it, is exactly divisible 32 and 90.

7. The traffic lights at two road junctions change after every 96 seconds and 144 seconds respectively. If they change simultaneously at 8 a.m., at what time will they change simultaneously again?

8. What is the smallest number that when divided separately by 21, and 49, gives the remainder of 13 in every case?

9. A bell rings every 12 seconds. A second bell rings every 15 seconds. If both the bells ring at the same time at 6 p m, at what time will they both ring together at the same time?

10. Jack and Jill start at the same time in the same direction to run around a stadium. Jack completes a round in 256 seconds and Jill in 192 seconds, both starting at the same point. After what time will they meet again at the starting point?

1. 60 eggs

2. 36 seconds

3. 48

4. 182

5. 126

6. 1417

7. 8:04:48 a.m.

8. 160

9. 6:01:00 pm

10. 768 seconds