LCM and GCF word problems

Read each problem. Decide if you need the least common multiple or the greatest common factor.

Name: _____

Score: _____ / 6

1. Hot dogs come in packs of 3 and buns in packs of 8. What is the smallest number of hot dogs you can buy to have the same number of buns? _____

2. Hot dogs come in packs of 6 and buns in packs of 8. What is the smallest number of hot dogs you can buy to have the same number of buns? _____

3. You have 12 red and 15 blue marbles. You share them into bags, all the same, with none left over. What is the greatest number of bags? _____

4. You have 18 red and 30 blue marbles. You share them into bags, all the same, with none left over. What is the greatest number of bags? _____

5. Hot dogs come in packs of 10 and buns in packs of 7. What is the smallest number of hot dogs you can buy to have the same number of buns? _____

6. A red light flashes every 9 seconds and a green light every 6 seconds. They flash together now. How many seconds until they flash together again? _____

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Answer key: LCM and GCF word problems

1. 24 hot dogs (8 packs of hot dogs and 3 packs of buns)
2. 24 hot dogs (4 packs of hot dogs and 3 packs of buns)
3. 3 bags (the greatest common factor of 12 and 15), each with 4 red and 5 blue
4. 6 bags (the greatest common factor of 18 and 30), each with 3 red and 5 blue
5. 70 hot dogs (7 packs of hot dogs and 10 packs of buns)
6. 18 seconds (the least common multiple of 9 and 6)