

Review for Mastery

Least Common Multiple

The smallest number that is a multiple of two or more numbers is called the least common multiple (LCM).

To find the least common multiple of 3, 6, and 8, list the multiples for each number and put a circle around the LCM in the three lists.

Multiples of 3: 3, 6, 9, 12, 15, 18, 21, 24

Multiples of 6: 6, 12, 18, 24, 30, 36, 42

Multiples of 8: 8, 16, 24, 32, 40, 48, 56

So 24 is the LCM of 3, 6, and 8.

List the multiples of each number to help you find the least common multiple of each group.

1. 3 and 4

Multiples of 3: _____

Multiples of 4: _____

LCM: _____

2. 5 and 7

Multiples of 5: _____

Multiples of 7: _____

LCM: _____

3. 8 and 12

Multiples of 8: _____

Multiples of 12: _____

LCM: _____

4. 2 and 9

Multiples of 2: _____

Multiples of 9: _____

LCM: _____

5. 4 and 6

Multiples of 4: _____

Multiples of 6: _____

LCM: _____

6. 4 and 10

Multiples of 4: _____

Multiples of 10: _____

LCM: _____

7. 2, 5, and 6

Multiples of 2: _____

Multiples of 5: _____

Multiples of 6: _____

LCM: _____

8. 3, 4, and 9

Multiples of 3: _____

Multiples of 4: _____

Multiples of 9: _____

LCM: _____

9. 8, 10, and 12

Multiples of 8: _____

Multiples of 10: _____

Multiples of 12: _____

LCM: _____

LESSON

5A

Homework and Practice**Least Common Multiple**

Find the least common multiple (LCM).

1. 3 and 5
_____2. 2 and 9
_____3. 5 and 6
_____4. 7 and 3
_____5. 6 and 7
_____6. 2 and 8
_____7. 12 and 18
_____8. 6 and 15
_____9. 6 and 9
_____10. 3, 4, and 6
_____11. 2, 5, and 7
_____12. 6, 8, and 12
_____13. 2, 4, and 11
_____14. 4, 9, and 12
_____15. 2, 3, and 7

16. Coach Wilson is ordering shirts and shorts for his track team. There are 30 members on his track team. Shorts come in packs of 3, and shirts come in packs of 6. What is the least number of packs of each he should order so that each member will have 1 pair of shorts and 1 shirt, and none will be left over?
- _____

17. Sally is selling breakfast bags. She needs to sell 24 bags today. Muffins come 3 to a pack, bagels come in packs of 4, and fruit bars come in packs of 6. How many packs of each item will she need to buy to make the 24 bags with no leftovers?
- _____

18. A restaurant needs to make 60 lunches. Cartons of juice come in packs of 4, bags of chips come in packs of 6, and toys come in packs of 15. How many of each pack will the restaurant need to buy with no leftovers?
- _____