

3.4 Least Common Multiple

Chapter 3: Factors, Multiples, and Fractions

Name: _____

Date: _____

Class/Period: _____

Problem 3.50 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

Find LCM(2, 9).

Problem 3.53 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

Find LCM(6, 14).

Problem 3.51 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

Find LCM(16, 24).

Problem 3.54 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

Find LCM(12, 40) using the ladder method.

Problem 3.52 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

Find LCM(8, 20).

Problem 3.55 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

Find LCM(14, 21).

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Problem 3.56 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

Find LCM(30, 42).

Problem 3.59 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

A store gives one coupon to every 25th customer and another coupon to every 60th customer. Which customer is the first to receive both coupons?

Problem 3.57 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

Find LCM(18, 81) using the ladder method.

Problem 3.60 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

Hamburgers come in packs of 10, and buns come in packs of 12. What is the least equal number of hamburgers and buns that can be purchased? How many packs of each are needed?

Problem 3.58 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

Find LCM(6, 8, 15) using the ladder method.

Problem 3.61 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

Marla is paid every 8 days at one job and every 28 days at another. If both jobs pay her today, in how many days will both jobs pay her again?

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Problem 3.62 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

Pencils come in packs of 6, markers in packs of 9, and erasers in packs of 18. What is the least equal number of each item that can be purchased?

Problem 3.63 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

A student uses an LCM ladder for 12, 18, and 25. The student divides 12 and 18 by 2 and carries 25 down unchanged. Is this a legal ladder step? Why or why not?

Problem 3.64 Directions:

Find each LCM. Use lists, prime factorization, or the ladder method unless a particular method is specified.

A student stops an LCM ladder when the final row is 1, 3, 5 and multiplies only the factors on the left. Is the student correct? Explain what must also be included.