1.6

Least Common Multiple

Do Now - Listing Method

Find the GCF using the listing method.

1) **18 and 48**

Prime Factorization Method

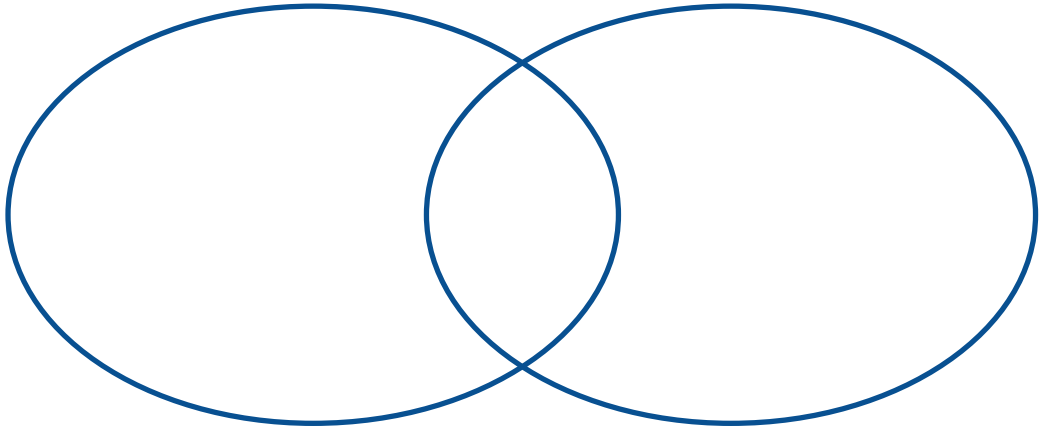
Find the GCF using the prime factorization method.

2) 18 and 48

Venn Diagram Method

Find the GCF using the Venn Diagram method.

3) 18 and 48



Greatest Common Factor Review

Name_____ Per _____

1) Find the GCF of 28 and 42 using the following methods:	Listing Method:
Prime Factorization Method	Venn Diagram Method

2) Find the GCF of 90 and 36 using the following methods:	Listing Method:
Prime Factorization Method	Venn Diagram Method

Real-Life Application 1

You are filling piñatas for your sister's birthday party. The list shows the gifts you are putting into the piñatas. You want identical groups of gifts in each piñata with no gifts left over. What is the greatest number of piñatas you can make?

Review

a) What is a multiple?

b) Example: The multiples of 4

c) Example: The multiples of 5

Review

d) Name 6 factors of 20

e) Name 6 multiples of 20

f) What's the difference?

Listing Method

Find the LCM using the listing method.

1) **5 and 6**

2) **8 and 12**

Listing Method

Find the LCM using the listing method.

3) 5 and 6

4) 8 and 12

Listing Method

Find the LCM using the listing method.

5) 3 and 7

6) 4, 10, and 12

Listing Method

Find the LCM using the listing method.

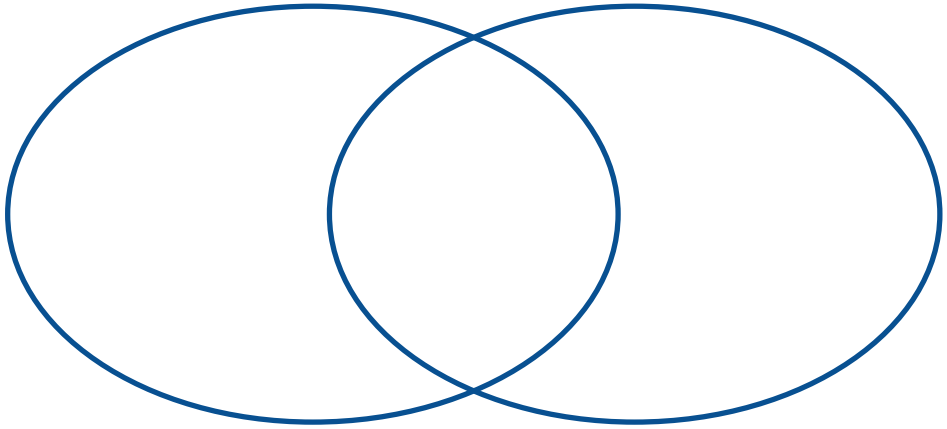
5) 3 and 7

6) 4, 10, and 12

Venn Diagram Method

Find the LCM using the prime factorization method.

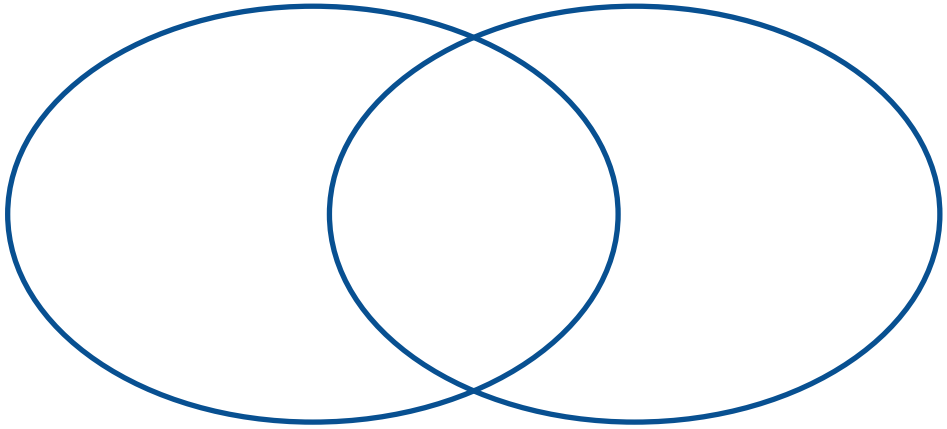
7) 18 and 12



Venn Diagram Method

Find the LCM using the prime factorization method.

8) 60 and 45



Mental Method

Find the LCM using the mental method.

9) 6 and 8

10) 12 and 60

Real-life Application

A traffic light changes every 30 seconds. Another traffic light changes every 40 seconds. Both lights just changed. After how many minutes will both lights change at the same time again?