1.5

Greatest Common Factor

Review

a) What is a factor?

b) A factor is also…

Review

List all the factors of 18

List all the factors of 12

What is the GREATEST COMMON FACTOR between 18 and 12?

Listing Method

Find the GCF using the listing method.

1) **15 and 25**

2) **24 and 36**

Listing Method

Find the GCF using the listing method.

3) 3 and 7

4) 16, 24, 40

Prime Factorization Method

Find the GCF using the prime factorization method.

5) 20 and 45

Prime Factorization Method

Find the GCF using the prime factorization method.

6) 12 and 56

Prime Factorization Method

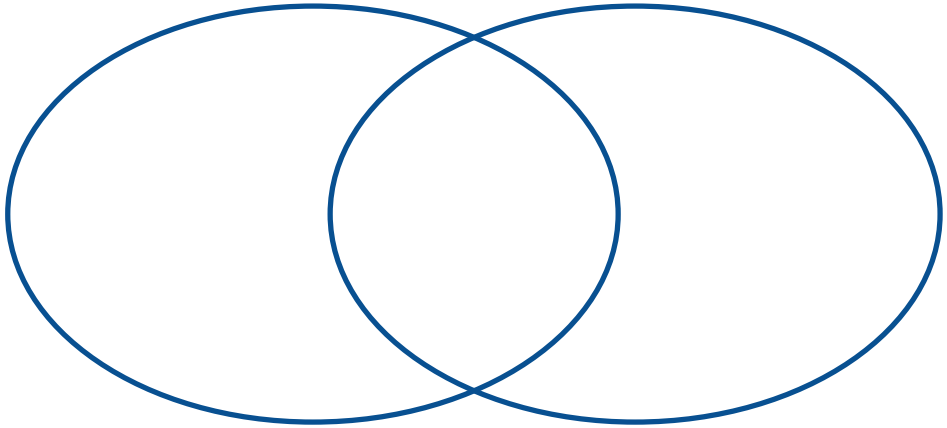
Find the GCF using the prime factorization method.

9) 90 and 32

Venn Diagram Method

Find the GCF using the Venn Diagram method.

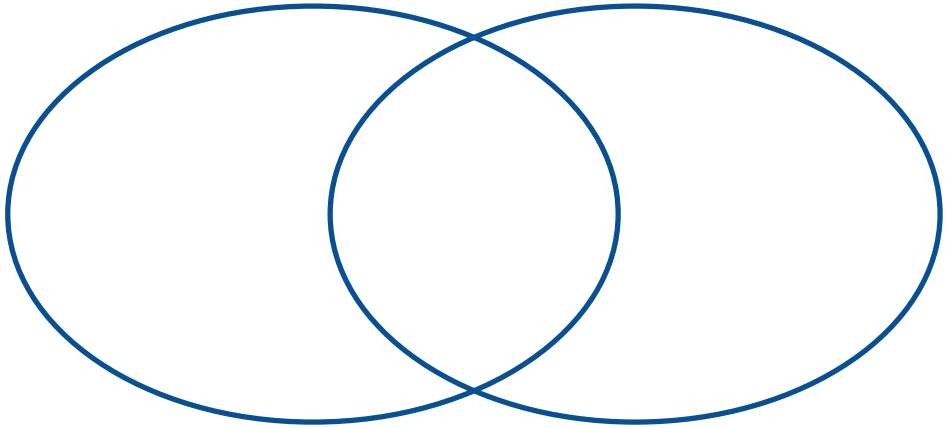
10) 18 and 12



Venn Diagram Method

Find the GCF using the Venn Diagram method.

11) 90 and 32



Mental Method

Find the GCF using the mental method.

12) 16 and 24

13) 6 and 24

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?

Real-Life Application

You are arranging your collection of DVDs into stacks. You have 16 drama, 32 action, and 40 comedy DVDs. You want all of the stacks to be the same height. What is the greatest number of DVDs you can have in a stack to make them the same height, without any left over?