Station 1

Use Prime Factorization to find the GCF of these pairs:



30 and 50 42 and 70

45 and 60 96 and 144

Station 2

There are 18 girls and 24 boys who want to participate in a Trivia Challenge.

* If each team must be identical, how many possible teams can enter?
* Find out how many boys and girls would each team have.

Station 3



Ski Club Members are preparing identical welcome kits for new skiers. The Ski club has 60 hand-warmers packets and 48 foot-warmers packets.

* Find the greatest number of identical kits they can prepare using all of the hand-warmer and foot-warmer packets.
* How many hand-warmer packets and foot-warmer packets would each welcome kit have?

Station 4



There are 435 representatives and 100 senators serving the United States Congress.

* How many identical groups with the same number of representatives and senators could be formed from all of Congress if we want the largest groups possible?
* How many representatives and senators would be in each group?

Station 5

Is the GCF of a pair of numbers ever equal to one of the numbers?

Give a detailed explanation supported with an example.



Station 6

Would you rather find all the factors of a set of numbers to find the GCF or use prime factorization to find the GCF?

Why?

Give a detailed explanation supported with an example.