

Making Connections with GCF and LCM

Part 1: Greatest Common Factor

Volume	Dimensions	Number of Prisms
12		
16		

Use the dimensions of each prism to list the factors of 12 and 16.

Volume	Factors	Greatest Common Factor
12		
16		

Volume	Dimensions	Number of Prisms
8		
24		

Use the dimensions of each prism to list the factors of 8 and 24.

Volume	Factors	Greatest Common Factor
8		
24		

Making Connections with GCF and LCM

Part 2: Least Common Multiple

Discover the LCM of 6 and 9	Prism 1	Prism 2
Dimensions of 1 st layer		
Volume of 1 st layer		
Dimensions after 2 nd layer		
Volume after 2 nd layer		
Dimensions after 3 rd layer		
Volume after 3 rd layer		

Compare and contrast Prism 1 and Prism 2.

What is the least common multiple of 6 and 9?

Making Connections with GCF and LCM

Discover the LCM of 10 and 12	Prism 1	Prism 2
Dimensions of 1 st layer		
Volume of 1 st layer		
Dimensions after 2 nd layer		
Volume after 2 nd layer		
Dimensions after 3 rd layer		
Volume after 3 rd layer		
Dimensions of 4 th layer		
Volume of 4 th layer		

Compare and contrast Prism 1 and Prism 2.

What is the least common multiple of 10 and 12?