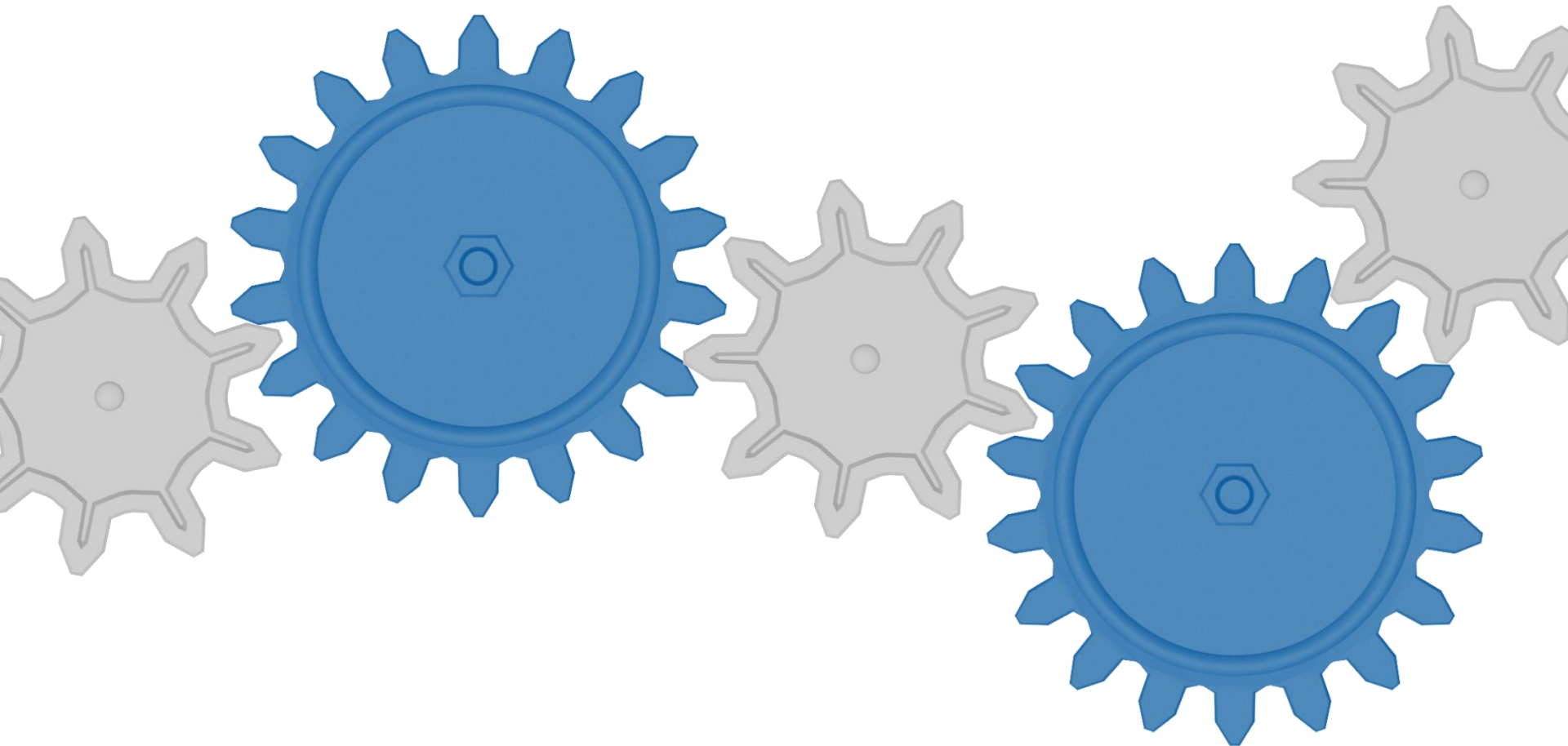


# Do Now

Please work silently on the Do Now, then continue to work on yesterday's notes. Thank you!





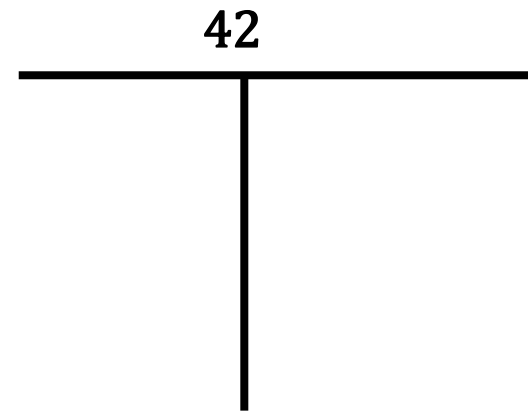
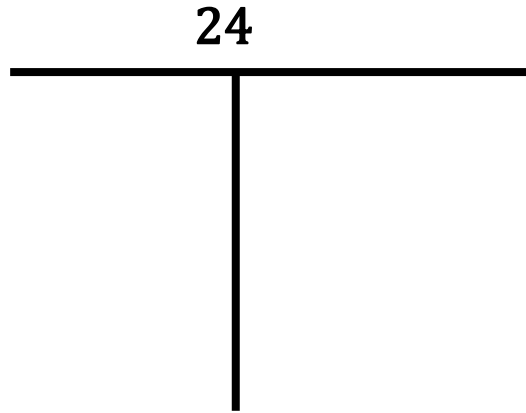
## Do Now

For the set of numbers below, determine the prime factorization of each number. Then, sort the numbers' prime factors into a Venn Diagram.

Use your Venn diagram to determine the GCF (greatest common factor) and LCM (least common multiple) of the set of numbers.

13 and 24

- 2) Identify **all factors** of 24 and 42 using the UT models provided below.



- 3) List all factors of 24 and 42 in ascending order.

factors of 24 =

factors of 42 =

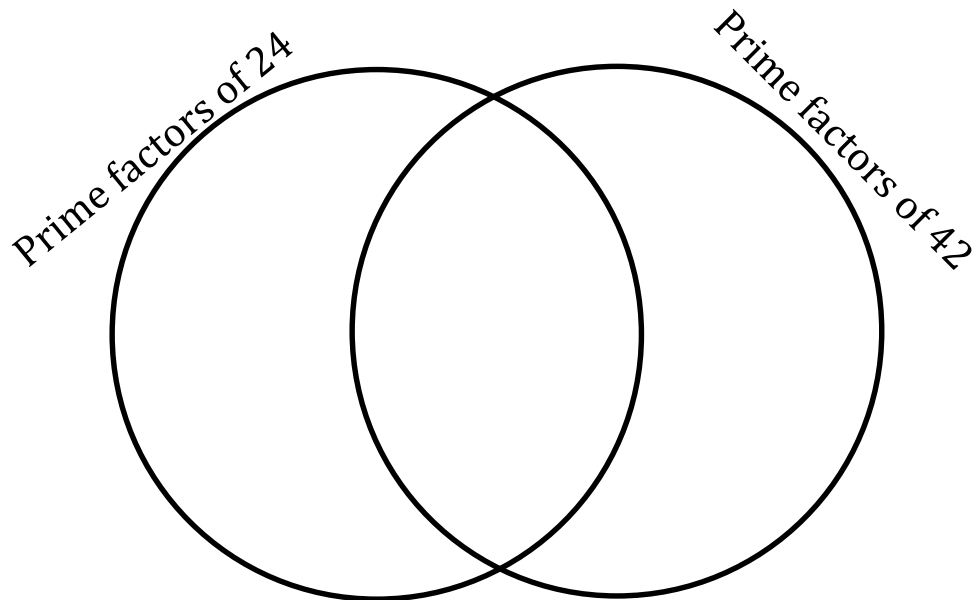
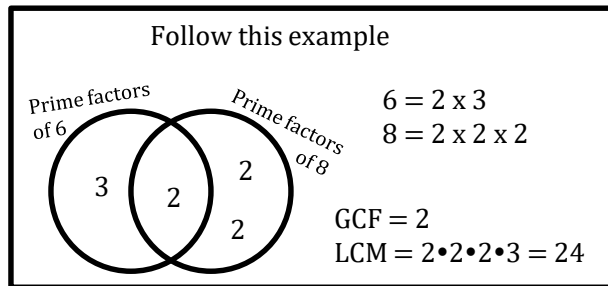
- 4) What is the greatest factor found in **both** sets above?

- 5) List multiples of 24 and 42 until you find the **first** positive multiple they share. Circle that **common** multiple.

Multiples of 24:

Multiples of 42:

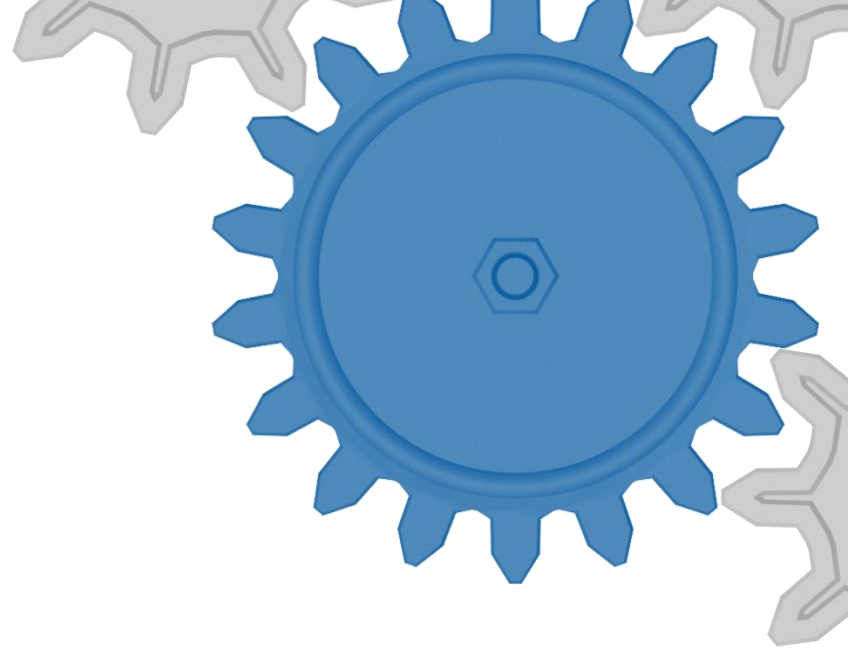
- 6) Sort the **prime factors** of 24 and 42 into the Venn Diagram shown below. Use the example shown for 6 and 8 below as a guide.



7) GCF =

8) LCM =

- 1) Decompose 35 and 49 into their prime factorizations. Then record the **prime factors** of 35 and 49 in expanded and exponential forms.



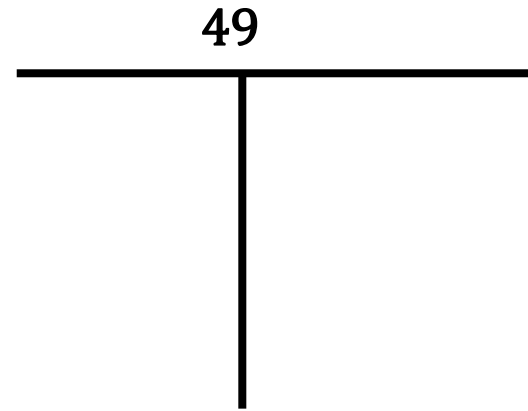
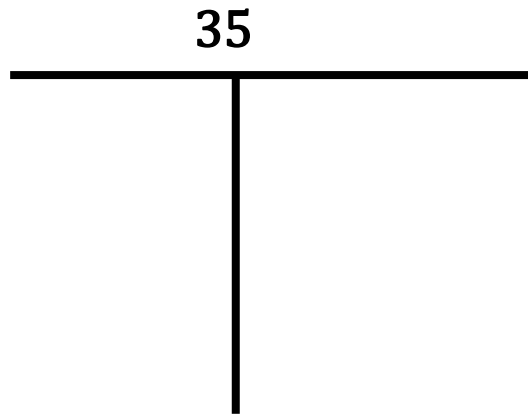
35 (expanded form) =

35 (exponential form) =

49 (expanded form) =

49 (exponential form) =

- 2) Identify **all factors** of 35 and 49 using the UT models provided below.



- 3) List all factors of 35 and 49 in ascending order.

factors of 35 =

factors of 49 =

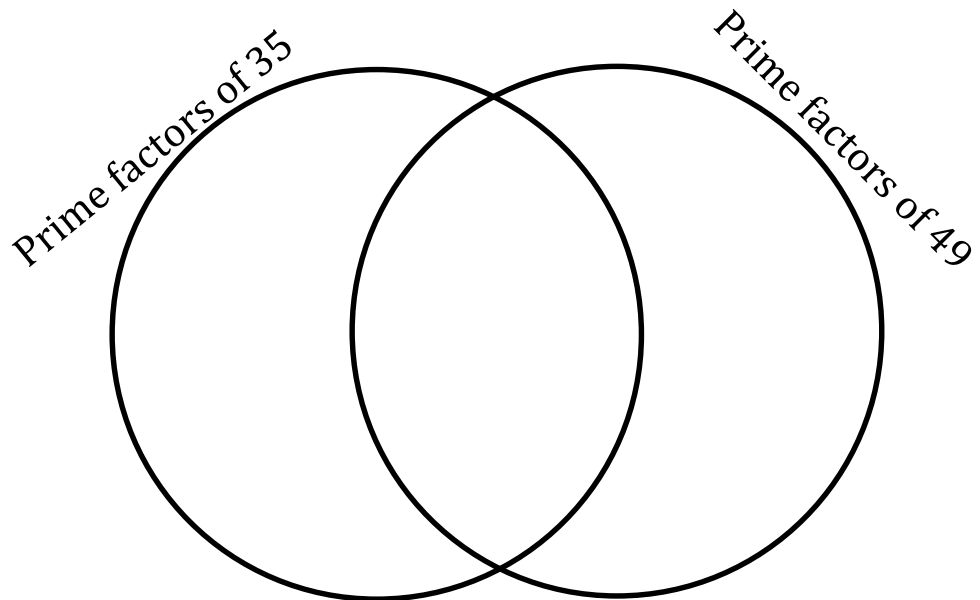
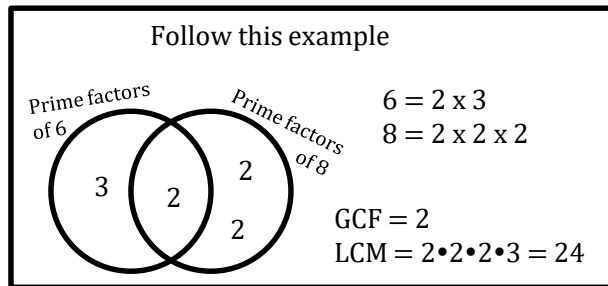
- 4) What is the greatest factor found in **both** sets above?

- 5) List multiples of 35 and 49 until you find the **first** positive multiple they share. Circle that **common** multiple.

Multiples of 35:

Multiples of 49:

- 6) Sort the **prime factors** of 35 and 49 into the Venn Diagram shown below. Use the example shown for 6 and 8 below as a guide.



7) GCF =

8) LCM =

- 1) Decompose 12, 16, and 20 into their prime factorizations. Then record the **prime factors** of 12, 16, and 20 in expanded and exponential forms.

12 (expanded form) =

12 (exponential form) =

16 (expanded form) =

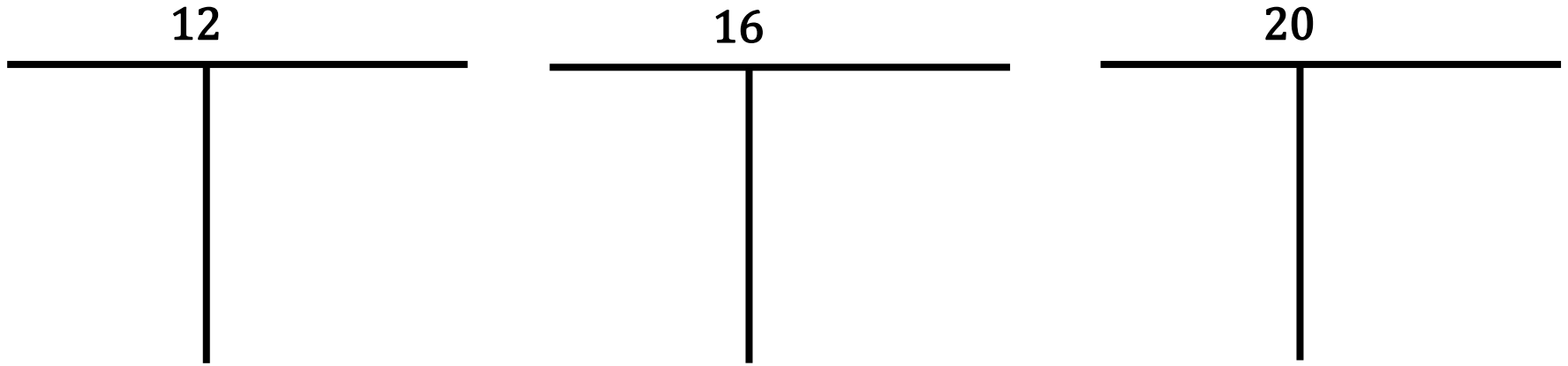
16 (exponential form) =

20 (expanded form) =

20 (exponential form) =



2) Identify all factors of 12, 16 and 20 using the UT models provided below.



3) List all factors of 12, 16, and 20 in ascending order.

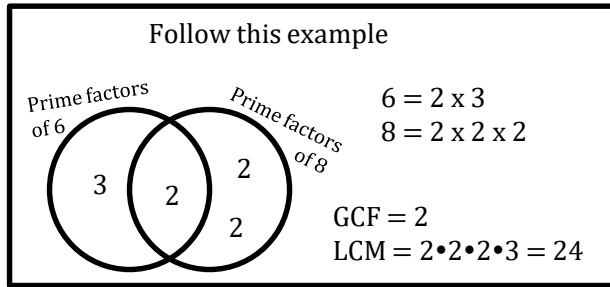
factors of 12 =

factors of 16 =

factors of 20 =

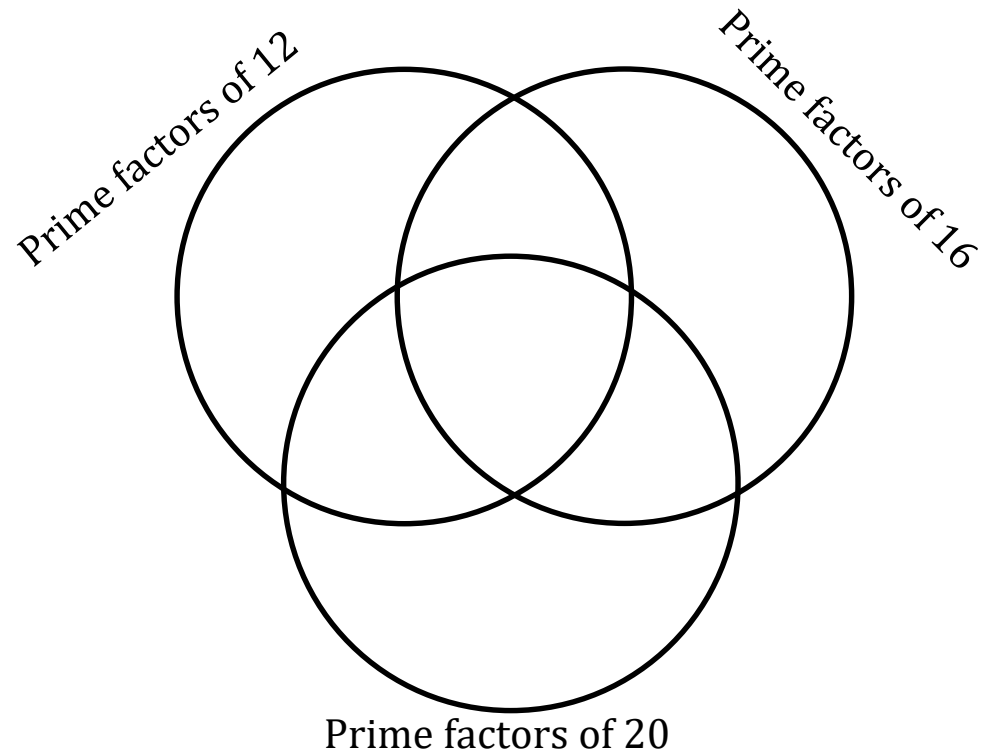
4) What is the greatest factor found in **all three** sets above?

5) Sort the **prime factors** of 12, 16, and 20 into the Venn Diagram shown below. Use the example shown for 6 and 8 below as a guide.



6) GCF =

7) LCM =



- 1) Decompose 27, 48, and 60 into their prime factorizations. Then record the **prime factors** of 27, 48, and 60 in expanded and exponential forms.

27 (expanded form) =

27 (exponential form) =

48 (expanded form) =

48 (exponential form) =

60 (expanded form) =

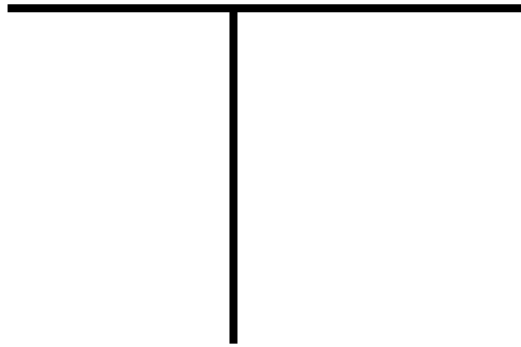
60 (exponential form) =

2) Identify **all factors** of 27, 48 and 60 using the UT models provided below.

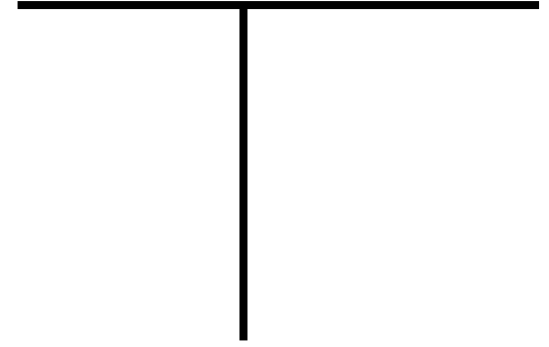
27



48



60



3) List all factors of 27, 48, and 60 in ascending order.

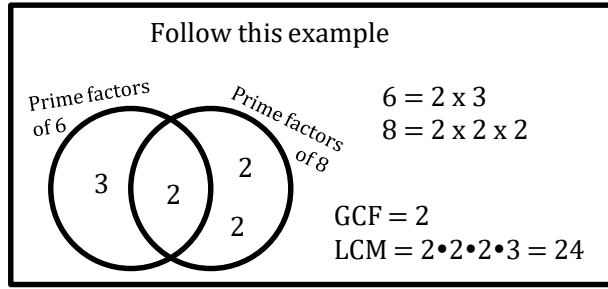
factors of 27 =

factors of 48 =

factors of 60 =

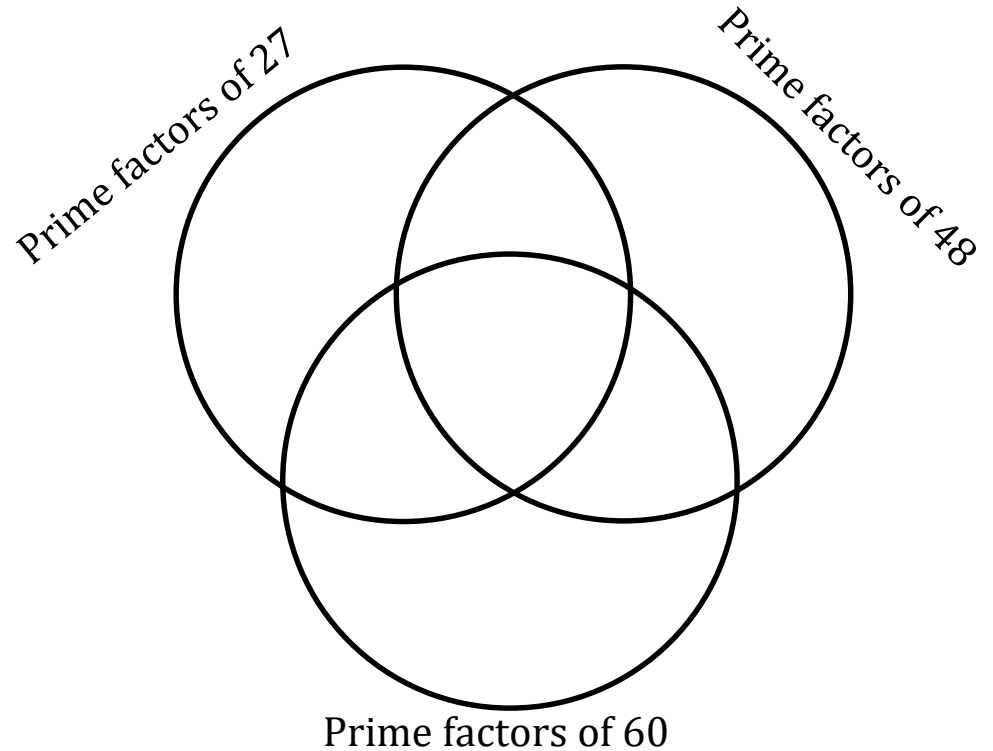
4) What is the greatest factor found in **all three** sets above?

- 5) Sort the **prime factors** of 27, 48, and 60 into the Venn Diagram shown below.  
Use the example shown for 6 and 8 below as a guide.



6) GCF =

7) LCM =



- 1) Decompose 10, 35, and 110 into their prime factorizations.  
Then record the **prime factors** of 10, 35, and 110 in expanded and exponential forms.

10 (expanded form) =

10 (exponential form) =

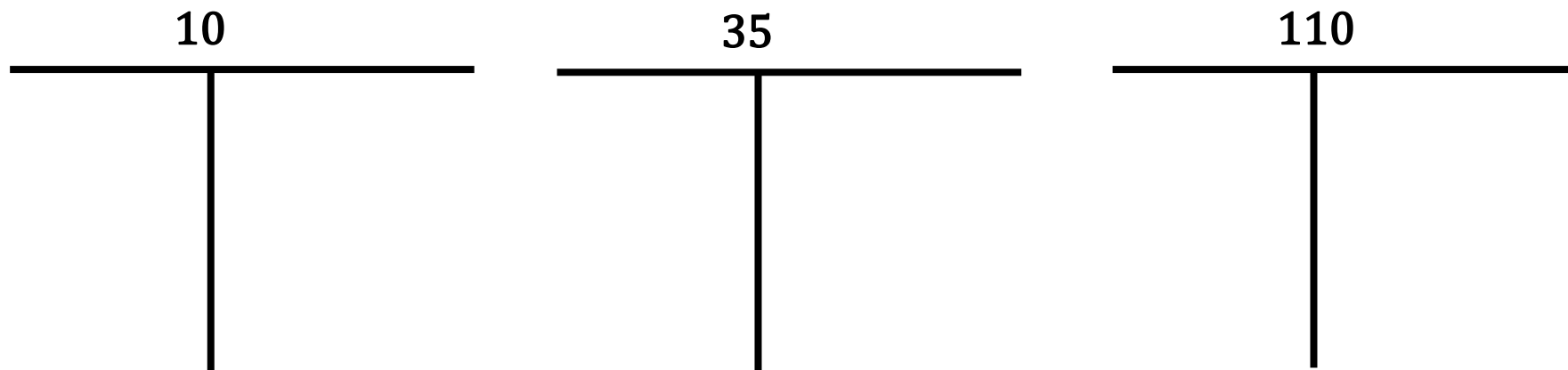
35 (expanded form) =

35 (exponential form) =

110 (expanded form) =

110 (exponential form) =

2) Identify **all factors** of 10, 35 and 110 using the UT models provided below.



3) List all factors of 10, 35, and 110 in ascending order.

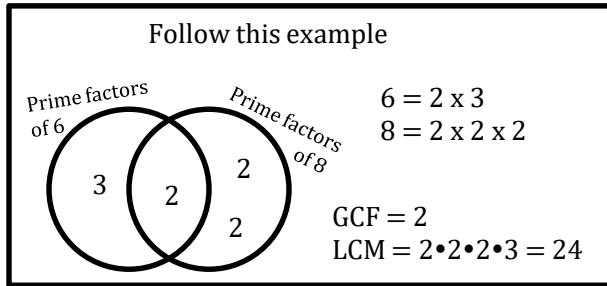
factors of 10 =

factors of 35 =

factors of 110 =

4) What is the greatest factor found in **all three** sets above?

- 5) Sort the **prime factors** of 10, 35, and 110 into the Venn Diagram shown below. Use the example shown for 6 and 8 below as a guide.



6) GCF =

7) LCM =

