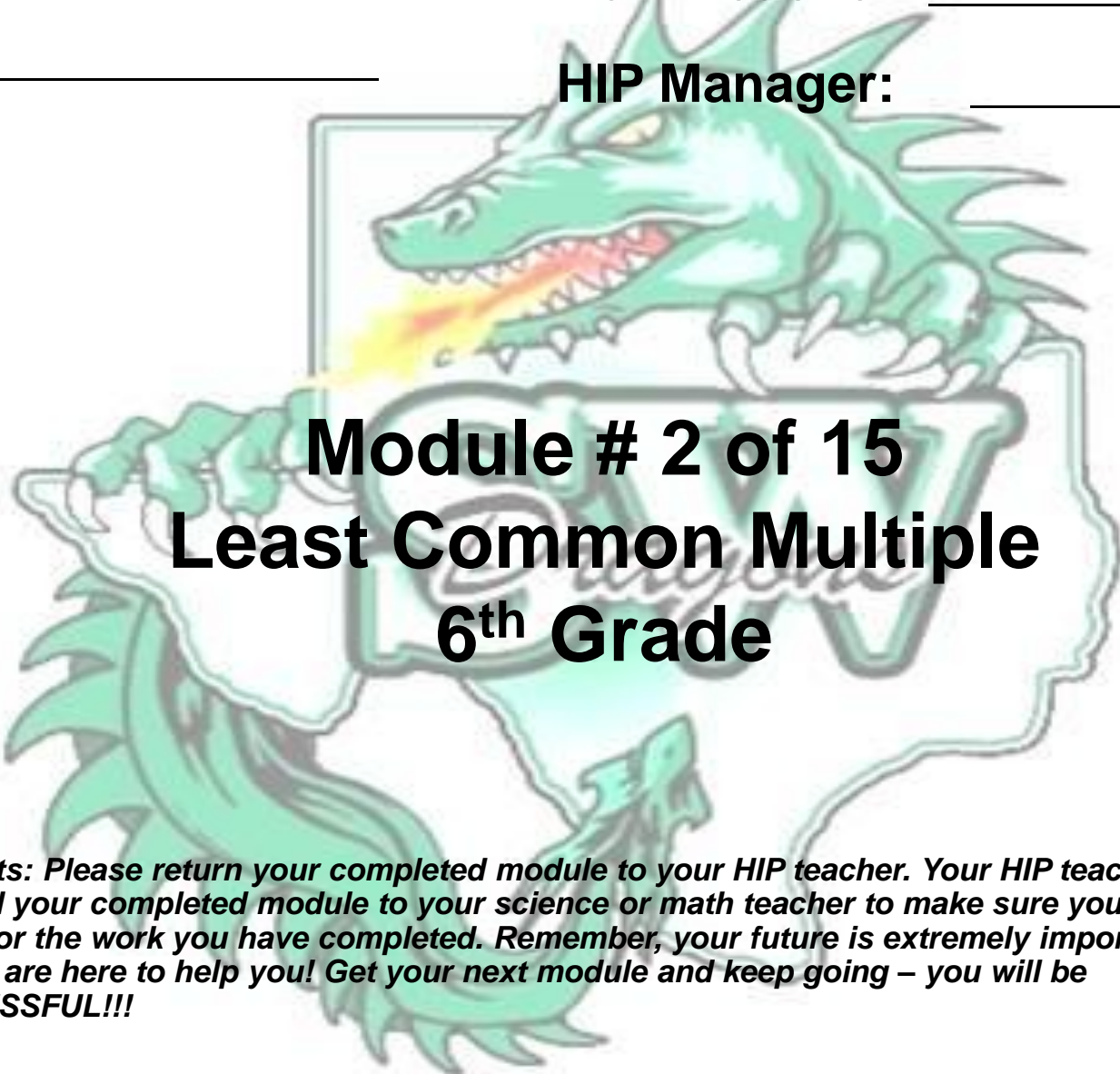


**Student
Name:** _____

Math Teacher: _____

HIP Manager: _____



**Module # 2 of 15
Least Common Multiple
6th Grade**

Students: Please return your completed module to your HIP teacher. Your HIP teacher will forward your completed module to your science or math teacher to make sure you receive credit for the work you have completed. Remember, your future is extremely important to us and we are here to help you! Get your next module and keep going – you will be SUCCESSFUL!!!



MATH DRAGON PRESENTS
"LCM"

LEAST COMMON MULTIPLE "LCM"

The least common multiple of two numbers or a set of numbers is the smallest multiple that those numbers have in common.

LCM

Let's find the LCM of 12 and 18.

First, list the multiples of 12 and 18:

12: 12, 24, 36, 48, 60

18: 18, 36, 54, 72, 90

To find a multiple,
multiply the original
number by 1,
then 2, then 3, ...



LCM

When you come to a multiple they have in common (the same) stop:

12: 12, 24, 36, 48, 60

18: 18, 36, 54, 72, 90

The least common multiple (LCM) of 12 and 18 is 36 because it is the smallest number they have in common.

So the LCM is 36.



TIME TO PRACTICE!!!

LIST THE MULTIPLES & FIND THE LCM

9 and 27

9:

27:

LCM: _____

4 and 10

4:

10:

LCM: _____

If one number is a lot bigger than the other, list multiples of the smaller number until it is larger than the second number.



LIST THE MULTIPLES & FIND THE LCM

3 and 6

3:

6:

LCM: _____

5 and 7

5:

7:

LCM: _____

When you see
multiple – think
Multiply!



LIST THE MULTIPLES & FIND THE LCM

12 and 16

12:

16:

LCM: _____

14 and 21

14:

21:

LCM: _____

When you see
multiple – think
Multiply!



LIST THE FACTORS & FIND THE LCM

4 and 5 and 10

4:

5:

10:

LCM: _____

You have to find
the first multiple
that is common
to all three.





**LETS SEE HOW MUCH YOU
HAVE LEARNED!!!**

LIST THE MULTIPLES & FIND THE LCM

6 and 8

6:

8:

LCM: _____

4 and 24

4:

24:

LCM: _____

When you see
multiple – think
Multiply!



How do we solve a word problem?

Which of the following is the least common multiple that Valerie can use to add three fractions with denominators of 6, 8, and 9?

- A 48
- B 54
- C 72
- D 144



List the multiples of 6, 8 and 9 until you find a multiple common to all three.

List the multiples

6:

8:

9:

Solving another LCM Problem

Mr. Drake bought muffins and drinks for a breakfast meeting. The muffins were sold in packages of 12, and the drinks were sold in packages of 18. What is the smallest number of packages of each item that Mr. Drake could have bought and still have the same number of muffins and drinks?



List the multiples of 12 and 18...find the least common multiple. Then figure out how many packages of each item he bought.

- A 2 packages of muffins
3 packages of drinks**
- B 18 packages of muffins
12 packages of drinks**
- C 3 packages of muffins
2 packages of drinks**
- D 6 packages of muffins
9 packages of drinks**

Find the LCM of 12 and 18

12:

18:



**NOW YOU WILL CREATE A GCF
PROBLEM OF YOUR OWN!!!**

CREATE YOUR OWN

- You are going to write your own word problem.
- It must be a problem that requires finding the LCM to get the answer.
- Extra points can be earned by drawing a picture to go with your word problem.
- It must be a story problem...do not just ask what is the LCM of two numbers.
- Finally, you need to explain what the correct answer is and WHY?
- Remember what you learned and don't be afraid to take a math adventure like our Math Dragon!!

Your Word Problem



CONGRATULATIONS!!!

JOB WELL DONE, AND WE WILL SEE YOU AGAIN SOON

IN

"MATH DRAGON'S

MATH ADVENTURE!!!"