Introduction to MCM and MCD
Welcome to this worksheet on Maximum Common Multiple (MCM) and Maximum Common Divisor (MCD) designed for 10-year-old students. This activity sheet aims to develop mathematical reasoning, problemsolving, and critical thinking skills.
MCM is the smallest multiple that is a common multiple of two or more numbers. MCD is the largest number that divides two or more numbers without leaving a remainder.
Understanding MCM and MCD
Calculate the MCM and MCD of the following numbers:
1. What is the MCM of 6 and 8?
2. What is the MCD of 12 and 15?
A bookshelf has 5 shelves, and each shelf can hold 8 books. If the bookshelf is currently empty, how many books can be placed on it in total?
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Solve the following problems using MCM and MCD:  1. A group of friends want to share some candy equally. If they have 48 pieces of candy and there are 8 friends, how many pieces of candy will each friend get?  2. A water tank can hold 1200 liters of water. If 300 liters of water are already in the tank, how much more water can be added?  3. What is the MCM of 9 and 12?  Word Problems  Solve the following word problems using MCM and MCD:  1. Tom has 12 boxes of pencils and Alex has 18 boxes of pencils. What is the least common multiple of the number of boxes they have?  2. A bakery sells 240 loaves of bread per day. They pack the bread in boxes that hold 12 loaves each. How many boxes are needed to pack all the bread?  Page 4 of 4  3. A library has 5 shelves, and each shelf can hold 10 books. If the library currently has 30 books, how many more books can be added to the shelves?	Applying MCM and MCD
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Challenges
Solve the following challenges using MCM and MCD:
1. Find the MCM and MCD of 7 and 11.
MCM:
MCD:
A group of students are planning a trip. If they have 150 dollars and each ticket costs 15 dollars, how many tickets can they buy?
3. What is the MCD of 20 and 25?
o. What is the Mob of 25 and 25.
Reflection and Critical Thinking
Answer the following questions: Page 4 of 4
1. How do you think MCM and MCD are used in real-life scenarios? Provide an example.
What challenges did you face while solving the problems in this worksheet? How did you overcome them?

Describe the situation and how you would solve it.							

## Conclusion

Congratulations on completing this worksheet on MCM and MCD! You have developed your mathematical reasoning, problem-solving, and critical thinking skills.

Remember to apply these concepts in real-life scenarios and continue to practice and challenge yourself to become a proficient mathematician.