

Name: _____

Date Started: _____ Date Completed: _____ Score: _____

Learning Activity Sheet
Solving Problems Involving Factors, Multiples, and Divisibility

A. Read each item carefully. Circle the best answer from among the given choices.

1. Aurora wanted to distribute notebooks to the students in their village. If she bought 540 notebooks and pens and wanted to pack them in pouches without leftovers, which of the following could NOT be the number of notebooks in a pouch?
 - a. 6
 - b. 11
 - c. 12
 - d. 9
2. Anna asked John to guess the number she is thinking of. The number is a factor of both 48 and 60, is a multiple of 4, and is between 11 and 15. What is the number?
 - a. 12
 - b. 13
 - c. 14
 - d. 15
3. Aunt Judy baked 128 cookies to sell. She wants to put the same number of cookies in each paper bag without any leftover cookies. How many cookies can she put in each paper bag?
 - a. 3
 - b. 4
 - c. 5
 - d. 9
4. Alex is buying eco-friendly spoons and forks for his party. Spoons are sold in packs of 8 and forks are sold in packs of 6. He wants to have the same number of spoons and forks. What is the minimum number of packs of each cutlery will he buy?
 - a. 2 packs of spoons and 3 packs of forks
 - b. 3 packs of spoons and 2 packs of forks
 - c. 3 packs of spoons and 4 packs of forks
 - d. 4 packs of spoons and 3 packs of forks
5. Ana and Joan go to the gym every 3rd and 4th day, respectively. How many days will they meet in the gym in June if they both went to the gym on June 5?
 - a. Never
 - b. Once
 - c. Twice
 - d. Thrice
6. Mother bakes 116 doughnuts to sell. She wants to put the same number of doughnuts in each box without any leftovers. How many doughnuts can she put in each box?
 - a. 3
 - b. 4
 - c. 6
 - d. 8
7. Alex is buying eco-friendly cups and plates for his family's reunion. Cups are sold in packs of 5 and plates are sold in packs of 8. He wants to have the same number of cups and plates. What is the minimum numbers of packs of each supply will he buy?
 - a. 4 packs of cups and 2 packs of plates
 - b. 5 packs of cups and 3 packs of plates
 - c. 6 packs of cups and 4 packs of plates
 - d. 8 packs of cups and 5 packs of plates

8. There are 60 books to be shelved in a library. Annie shelves 5 books at a time, while Paulette shelves 6 books. How many books can each of them shelve, if they both shelve the same number of books?
- | | |
|-------|-------|
| a. 25 | c. 45 |
| b. 30 | c. 60 |

B. Read and answer each problem. Write your answer in the box below.

1. Aunt Judy bought 21 cupcakes and 15 oranges. She wanted to give her nephews and nieces an equal number of cupcakes and oranges. How many cupcakes and oranges did each one receive?

2. Eggs come in packs of 12 and oranges come in packs of 6. What is the least number of packs of each can you buy to prepare a breakfast with eggs and oranges?