Common Factor Practice Part 1

A math team has 24 female members and 30 male members. The coach wants to arrange the members in equal groups of all males or all females. In what ways can the coach arrange the groups?

(1)   List all the factors of each number.

(2)   Circle the common factors:

.

(3)   So the math team can be arranged in equal groups of _____.

(4)   What is the largest number of students that can be in one equal group? How do you know?

32 people at a bird sanctuary signed up for hiking and 20 people signed up for kayaking. They will be divided into smaller groups. In what ways can these groups be arranged?

(5)   List all the factors of each number.

(6)   Circle the common factors:

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(7)   So the bird sanctuary groups can be arranged in equal groups of _____.

(8)   What is the largest number of people that can be in one equal group? How do you know?

Common Factor Practice Part 2

Find the common factors of each set of numbers. Show your work.

(1)   12, 18, 30

(2)   21, 28, 35

Find the common factors of each set of numbers. Show your work.

(3)   6, 15

(4)   24, 40, 56

(5)   12, 18, 30 and 54

(6)   Carrie has 3 CD storage cases that can hold 12, 24, and 60 CDs. The cases have sections holding the same number of CDs. What is the greatest number of CDs in each section? How do you know?