Introduction to Factors

A factor is a number that divides exactly into a number

The word FACTOR is asking "what can you divide the number by"

List at least four factors for each numbers

Example

8

$8 \div 2 \rightarrow 4$

$8 \div 4 \rightarrow 2$

$8 \div 8 \rightarrow 1$

$8 \div 1 \rightarrow 8$

So 2,4,8 and 1 are all factors of 8

20

$20 \div 4 \rightarrow 5$

$20 \div 5 \rightarrow 4$

$20 \div 10 \rightarrow 2$

$20 \div 2 \rightarrow 10$

$20 \div 20 \rightarrow 1$

$20 \div 1 \rightarrow 20$

So 5,4,2,10,1, and 20 are all factors of 20

Now it's four turn

Factor of 21:----------

Factor of 28:----------

Factor of 32:----------

Factor of 45:----------

List at least three common factors for each set of numbers

Example

8

$8 \div 2 \rightarrow 4$

$8 \div 4 \rightarrow 2$

$8 \div 8 \rightarrow 1$

$8 \div 1 \rightarrow 8$

So 2,4,8 and 1 are all factors of 8

20

$20 \div 4 \rightarrow 5$

$20 \div 5 \rightarrow 4$

$20 \div 10 \rightarrow 2$

$20 \div 2 \rightarrow 10$

$20 \div 20 \rightarrow 1$

$20 \div 1 \rightarrow 20$

So 5,4,2,10,1, and 20 are all factors of 20

Factors of 8:- 1,2,4,8

Factors of 20:-1,2,4,5,10,20

Common factors are 1,2,4

Now it's four turn

Factor of 9 and 27:------

Factor of 14 and 56:------

Factor of 8 and 24:------

Factor of 40 and 60:------

Find the greatest common factor for each set of numbers

Factor of 44 and 64:----------

Factor of 36 and 24:----------

Factor of 28 and 42:----------

Factor of 10 and 20:----------

Factor of 8 and 20:----------

Factor of 14 and 32:----------

Hint

In above example again see the factors of 8 and 20 "4" is the greatest common factor (GCF)