

Name: _____

Mathematics

Greatest Common Factor (GCF/HCF)



Definition

Greatest Common Factor (GCF)

The greatest number that can divide two other numbers evenly. The GCF can be used to find a fraction in simplest form.

GCF Example

Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24
Factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36

Common factors in red.
GCF: 12

A. List the **factors** these numbers. Write them in order from **least to greatest**.

a) 21 = _____

b) 31 = _____

c) 49 = _____

d) 16 = _____

e) 33 = _____

f) 20 = _____

g) 17 = _____

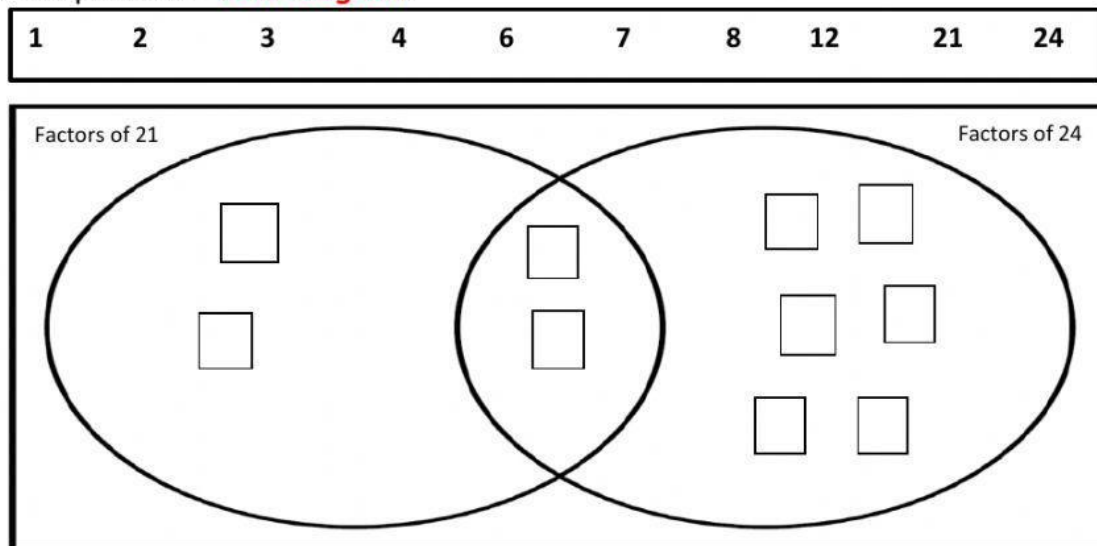
h) 4 = _____

i) 56 = _____

B. Find the **GCF** of these of numbers.

| | |
|--------------------------|--------------------------|
| 8 and 12 GCF = _____ | 15 and 20 GCF = _____ |
| 21 and 35 GCF = _____ | 33 and 11 GCF = _____ |
| 25 and 30 GCF = _____ | 6 and 18 GCF = _____ |

C. Complete the **Venn diagram**.



D. Complete the **Venn diagram**.

