Name _____

GCF Finder Answer Key

1) Factors of 18: 1, 2, 3, 6, 9, 18
   Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24
   GCF: 6
   Simplified fraction: 3/4
2) Factors of 15: 1, 3, 5, 15
   Factors of 20: 1, 2, 4, 5, 10, 20
   GCF: 5
   Simplified fraction: 3/4
3) Factors of 14: 1, 2, 7, 14
   Factors of 21: 1, 3, 7, 21
   GCF: 7
   Simplified fraction: 2/3
4) Factors of 16: 1, 2, 4, 8, 16
   Factors of 40: 1, 2, 4, 5, 8, 10, 20, 40
   GCF: 8
   Simplified fraction: 2/5
5) Factors of 27: 1, 3, 9, 27
   Factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36
   GCF: 9
   Simplified fraction: 3/4
6) Factors of 25: 1, 5, 25
   Factors of 35: 1, 5, 7, 35
   GCF: 5
   Simplified fraction: 5/7
7) Factors of 28: 1, 2, 4, 7, 14, 28
   Factors of 42: 1, 2, 3, 6, 7, 14, 21, 42
   GCF: 14
   Simplified fraction: 2/3
8) Factors of 30: 1, 2, 3, 5, 6, 10, 15, 30
   Factors of 45: 1, 3, 5, 9, 15, 45
   GCF: 15
   Simplified fraction: 2/3

Teacher's Guide

- Model the first problem together by listing factors in order before identifying the GCF.
- Encourage students who need support to use factor trees or multiplication facts to generate factor lists.
- Challenge advanced students to explain why using the GCF simplifies a fraction in one step.
- Have pairs compare factor lists to check for missing factors before simplifying.
- Extend learning by asking students to write two new fractions with a GCF of 12 and simplify them.