

Vocabulary

factor - a number that is multiplied to another number.

$$\begin{array}{c} \downarrow \quad \downarrow \\ 2 \times 3 = 6 \end{array}$$

prime - a number that has only two factors, one and itself

$$\frac{7}{1 \times 7}$$

composite - a number that has more than two factors.

$$\frac{10}{1 \times 10}$$

$$2 \times 5$$

Guided Practice

List the factors of the following numbers. State whether the number is prime or composite.

12
 1×12
 2×6
 3×4

15
 1×15
 3×5

11
 1×11

18
 1×18
 2×9
 3×6

24
 1×24
 2×12
 3×8
 4×6

composite

composite

prime

composite

composite

Find the GCF of each set of numbers.

15, 40

15 40
 1×15 1×40
 3×5 2×20
 4×10
 5×8

16, 36

16 36
 1×16 1×36
 2×8 2×18
 4×4 3×12
 4×9
 6×6

~~24, 64~~
 (skip)

9, 12, 15

9 12 15
 1×9 1×12 1×15
 3×3 2×6 3×5
 3×4

GCF: 5

GCF: 4

GCF: _____

GCF: 3