

Write prime factorizations

Factor tree
60Ladder diagram
60

Find the GCF of two numbers by listing factors

Factors of 36:

Factors of 60:

Find the GCF of two numbers using prime factorization

$$60 = 2 \cdot 2 \cdot 3 \cdot 5$$

$$75 = 3 \cdot 5 \cdot 5$$

Find the GCF of two monomials using prime factorization

$$5x^3 = 5 \cdot x \cdot x \cdot x$$

$$10x^2 = 2 \cdot 5 \cdot x \cdot x$$

Find the GCF of 27 and 63.

Find the GCF of 12 and 25.

Find the GCF of 40 and 70.

Find the GCF of $9a^2$ and 15.

Find the GCF of $18x$ and $63x^2$.

Find the GCF of $-32n^2$ and $24n^3$.

Find the GCF of $4a^3$, $8a$, and $16a^2$.

Find the GCF of $12x^4y^3$, $8x^3y^3$, and $4x^3y^3$.

Find the GCF of 100, $25a^2$, and $75a$.