

Reteaching 4-3 Prime Factorization and Greatest Common Factor

Find the GCF of 36 and 54.

$$36 = 2^2 \cdot 3^2 = \boxed{2} \cdot \boxed{2} \cdot \boxed{3} \cdot \boxed{3} \quad \text{write the prime factorization}$$

$$54 = 2 \cdot 3^3 = \boxed{2} \cdot \boxed{3} \cdot \boxed{3} \cdot \boxed{3}$$

find the common factors

$$\text{GCF} = 2 \cdot 3 \cdot 3 = 2 \cdot 3^2 = 18$$

Notice 2 is the lesser power of 2^2 and 2, and 3^2 is the lesser power of 3^2 and 3^3 .

Find the GCF.

1. $50 =$ _____

$35 =$ _____

GCF = _____

2. $75 =$ _____

$30 =$ _____

GCF = _____

3. $48 =$ _____

$60 =$ _____

GCF = _____

4. $45 =$ _____

$72 =$ _____

GCF = _____

5. $98 =$ _____

$42 =$ _____

GCF = _____

6. $24 =$ _____

$80 =$ _____

GCF = _____

7. $315 =$ _____

$360 =$ _____

GCF = _____

8. $156 =$ _____

$208 =$ _____

GCF = _____