Name _____ Class _____ Date _____

Reteaching 4-3 Prime Factorization and Greatest Common Factor

Find the GCF of 36 and 54.

$36 = 2^2 \cdot 3^2 = \boxed{2} \cdot 2 \cdot \boxed{3} \cdot \boxed{3}$

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

write the prime factorization

find the common factors

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 = _____