Lesson 2.5 Practice: The Euclidean Algorithm

School Launch · Pre-Algebra · Unit 2: Factors, Multiples and Primes · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Use the Euclidean algorithm to find $\gcd(441, 162)$. Show each division step. EASY

2. Find the greatest common factor of 18 and 22. EASY

3. Use the Euclidean algorithm to find $\gcd(1175, 650)$. Show each division step. EASY

4. Find the greatest common factor of 63 and 56. MEDIUM

5. Use the Euclidean algorithm to find $\gcd(1131, 464)$. Show each division step. MEDIUM

6. Find the greatest common factor of 108 and 48. MEDIUM

7. Use the Euclidean algorithm to find $\gcd(1239, 462)$. Show each division step. MEDIUM

8. Find the greatest common factor of 56, 64 and 40. HARD

9. Use the Euclidean algorithm to find $\gcd(1325, 325)$. Show each division step. HARD

10. Find the greatest common factor of 152, 133 and 152. HARD