Name

3

Б

15

Reteaching Page 4.5b Equivalent Fractions – Simplifying Fractions

Equivalent Fractions name the same amount. Most of the time, you will be asked to show your answer in simplest form (otherwise the multitude of possible answers to a problem would make checking your work prohibitive!).

Simplest Form is a fraction whose numerator and denominator have a GCF of 1. There are several ways to go about simplifying fractions.

GCF Style

| | - | | | 10 . 0 | 0 | |
|-------|--|-----------------|---|---|-----|---|
| 1. | Find the GCF of the numerator and denominator. | | - | $\frac{1}{24} \div \frac{1}{3} = \frac{1}{8}$ | | |
| 2. | Create a fraction (equivalent to 1) using the GCF. | | | 15.1 2 5 15 | | |
| 3. | Divide the original fraction by "one". | | | 15: 1, 3 , 5, 15 24: 1, 2, 3 , 4, 6, 8 | | |
| Prime | Factor Style | | | | | |
| 1. | Write the numerator and denominator as a | <u>36</u> 48 | - | 36 = 3 * 3 * 2 * 2 | | |
| | product of prime factors. | | | 48 = 3 * 2 * 2 * 2 | * 2 | |
| 2. | Delete all common prime factors. | 36 | = | 3 | 3 | 3 |

3. Multiply the remaining factors. 36 = 2 36 = 2 36 = 2 2 = 2 2 = 2 2 = 2 2 = 2

Use one of the methods above to simplify each of the following fractions.



© 2005 – Norm Mitchell (Math6.org) – All Rights Reserved

Freely reproducible for "non profit" educational purposes - visit http://www.math6.org/legal.htm for more details concerning "non profit".