Reducing Fractions Worksheet

Reduce the following fractions into lowest terms

1. $\dfrac{4}{6}$
2. $\dfrac{9}{12}$
3. $\dfrac{15}{24}$
4. $\dfrac{18}{24}$
5. $\dfrac{3}{27}$

1. $\dfrac{4}{6}$

The greatest common factor of 4 and 6 is 2, hence divide both by 2, as shown:

$$\dfrac{4 \div 2}{6 \div 2} = \dfrac{2}{3}$$

2. $\dfrac{9 \div 3}{12 \div 3} = \dfrac{3}{4}$ The gcf of 9 and 12 is 3, so divide by 3.

3. $\dfrac{15 \div 3}{24 \div 3} = \dfrac{5}{8}$ The gcf of 15 and 24 is 3.

4. $\dfrac{18 \div 6}{24 \div 6} = \dfrac{3}{4}$ The gcf of 18 and 24 is 6, hence divide by 6.

5. $\dfrac{3 \div 3}{27 \div 3} = \dfrac{1}{9}$ The gcf of 3 and 27 is 3.

Hence, to reduce fractions into lowest terms, Greatest common factor is the key.