Simplifying Fractions

Find common factors for these fractions and reduce them to their simplest terms.

e.g. $\dfrac{4}{12} = \dfrac{1}{3}$

1. $\dfrac{3}{15}$

2. $\dfrac{5}{30}$

3. $\dfrac{7}{63}$

4. $\dfrac{12}{44}$

5. $\dfrac{14}{84}$

Equivalent Fractions

Are these fraction pairs equivalent or not? Prove it by applying the same calculation to the numerator and denominator and checking if you get the right answer.

e.g. $\dfrac{2}{5} = \dfrac{10}{20}$ - Not equivalent, because 2x5=10 but 5x5=25, not 20.

1. $\dfrac{3}{4} = \dfrac{12}{16}$

2. $\dfrac{5}{20} = \dfrac{15}{80}$

3. $\dfrac{4}{9} = \dfrac{20}{54}$

4. $\dfrac{12}{55} = \dfrac{36}{165}$

5. $\dfrac{18}{45} = \dfrac{144}{405}$