3-3: Adding and Subtracting Unlike fractions Unlike fractions must be changed to like fractions, in order to add or subtract them. P.217 Stepl: Rewrite the unlike fractions as Like Fractions with the LCM as their new Denominator. The new Denomina. for is called LCD = Least Common Den-Step2: Add or Subtratesale CO.UK Add or Subtratesale with like tracts Step3: presimplify age answer in Lowest terms, mixed number or whole min  $\frac{42 + 4}{18 + 12} = \frac{12 \times 2 \times 3}{12 \times 2 \times 3} = \frac{12}{12} = \frac{18}{12} = \frac{18}{12} = \frac{218}{12} = \frac{218}{12$ LCM = 2.2 - 3.3 = 4.9 = 36Rewrite the fractions with LCD=36  $\frac{12}{18} = \frac{?}{36} = \frac{12 \cdot 2}{18 \cdot 2} = \frac{24}{36} \cdot \frac{4}{12} = \frac{?}{36} = \frac{4 \cdot 3}{12 \cdot 3} = \frac{12}{36}$ 

 $\frac{4+12}{36} = \frac{36}{36}$  $\frac{12}{18} + \frac{4}{12} = \frac{24}{36} + \frac{12}{36} = \frac{2}{36}$ \* Subtracting Unlike Fractions

 $\frac{15}{16} - \frac{3}{12}$ 116 12 Find LCM of 16 and 12 286 LCM=2.2.2.2.3=16.3 LCM = 48 4 3 The new and Common Denominator of both decisions is LCD = 48 from 6 of 15 Preview page 6 of 15  $\frac{15}{16} = \frac{15}{48} = \frac{15}{16 \cdot 3} = \frac{45}{48}$ done 248 224 212 263  $\frac{3}{12} = \frac{?}{48} = \frac{3.4}{12.4} = \frac{12}{48}$ ے ج **ک**مر - 45-12 - 33 45 12 12 48 48 48 16 48  $\frac{33}{48} = \frac{3 \cdot 11}{3 \cdot 16} = \frac{11}{16}$