

Use the number lines to help you with the calculations. 3 a)  $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ **b)**  $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \begin{vmatrix} \frac{1}{2} \\ 0 \end{vmatrix}$ c)  $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} = \begin{vmatrix} \frac{1}{3} \\ 0 \end{vmatrix}$ Write the fractions as sums of unit fractions. a)  $\frac{2}{3} =$ 131 3 **b)**  $\frac{2}{7} =$ + 7 17 c)  $\frac{3}{7} =$ +7 ネ d)  $\frac{3}{14} = \frac{1}{14} + \frac{1}{14} + \frac{1}{14}$ e)  $\frac{4}{14} = \frac{1}{14} + \frac{1}{14} + \frac{1}{14} + \frac{1}{14}$ f)  $\frac{7}{14} = \frac{1}{14} + \frac{1}{14} + \frac{1}{14} + \frac{1}{14} + \frac{1}{14} + \frac{1}{14} + \frac{1}{14}$ 







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What do you notice about part d)? Discuss with a partner.

Complete the calculations by adding or subtracting unit fractions. a)  $\frac{3}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$ **b)**  $\frac{2}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5} - \frac{1}{5}$ c)  $\frac{9}{9} = \frac{1}{9} + \frac$ **d**)  $\frac{0}{6} = \frac{1}{6} + \frac{1}{6} - \frac{1}{6} - \frac{1}{6}$ Complete the addition and the sentences to show how you can use unit fractions to make a whole. Use the bar models to help. a)  $\frac{4}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ You need to add  $\frac{1}{4} \left| \begin{array}{c} L \\ L \end{array} \right|$  times to make a whole. b)  $\frac{\boxed{6}}{6} = \frac{1}{6} + \frac{1}{6}$ c)  $\frac{20}{20} = \frac{1}{20} + \frac{1}{20} + \dots + \frac{1}{20}$ You need to add  $\frac{1}{20}$  times to make a whole. Why is it not suitable to draw a bar model for part c)?









