

# Decomposing Fractions into Unit Fractions

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A) Express each fraction as a sum of unit fractions.

$$1) \quad \frac{8}{9} = \frac{\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9}}{\quad}$$

$$2) \quad \frac{5}{6} = \underline{\hspace{10cm}}$$

$$3) \quad \frac{2}{3} = \underline{\hspace{10cm}}$$

$$4) \quad \frac{4}{7} = \underline{\hspace{10cm}}$$

$$5) \quad \frac{9}{10} = \underline{\hspace{10cm}}$$

$$6) \quad \frac{3}{5} = \underline{\hspace{10cm}}$$

B) 1) Which of the following expressions shows  $\frac{7}{8}$  decomposed into a sum of unit fractions?

a)  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

b)  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

c)  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

d)  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

2) Which of the following expressions shows  $\frac{6}{11}$  decomposed into a sum of unit fractions?

a)  $\frac{1}{11} + \frac{1}{11} + \frac{1}{11} + \frac{1}{11} + \frac{1}{11}$

b)  $\frac{1}{11} + \frac{1}{11} + \frac{1}{11} + \frac{1}{11}$

c)  $\frac{1}{11} + \frac{1}{11} + \frac{1}{11}$

d)  $\frac{1}{11} + \frac{1}{11} + \frac{1}{11} + \frac{1}{11} + \frac{1}{11} + \frac{1}{11}$