

Solution

See teacher notes for possible strategies for obtaining solutions.

For $\frac{5}{8}$ of a deben of cinnamon

$$\frac{5}{8} = \frac{4}{8} + \frac{1}{8} = \frac{1}{2} + \frac{1}{8}$$

For $\frac{2}{3}$ of a deben of pepper

$$\frac{2}{3} = \frac{4}{6} = \frac{3}{6} + \frac{1}{6} = \frac{1}{2} + \frac{1}{6}$$

For $\frac{3}{10}$ of a deben of basil

$$\frac{3}{10} = \frac{2}{10} + \frac{1}{10} = \frac{1}{5} + \frac{1}{10}$$

For $\frac{5}{12}$ of a deben of saffron

$$\frac{5}{12} = \frac{3}{12} + \frac{2}{12} = \frac{1}{4} + \frac{1}{6}$$

For $\frac{4}{5}$ of a deben of thyme

$$\frac{4}{5} = \frac{8}{10} = \frac{5}{10} + \frac{2}{10} + \frac{1}{10} = \frac{1}{2} + \frac{1}{5} + \frac{1}{10}$$

For $\frac{17}{20}$ of a deben of rosemary

$$\frac{17}{20} = \frac{10}{20} + \frac{5}{20} + \frac{2}{20} = \frac{1}{2} + \frac{1}{4} + \frac{1}{10}$$

For $\frac{25}{24}$ of a deben of mint

$$\frac{25}{24} = \frac{12}{24} + \frac{6}{24} + \frac{4}{24} + \frac{3}{24} = \frac{1}{2} + \frac{1}{4} + \frac{1}{6} + \frac{1}{8}$$

