

Name _____

Date _____

1. Make like units, then add. Use an equation to show your thinking.

$$\begin{aligned} \text{a) } \frac{3}{5} + \frac{1}{3} &= \left(\frac{3}{5} \times \frac{3}{3}\right) + \left(\frac{1}{3} \times \frac{5}{5}\right) \\ &= \frac{9}{15} + \frac{5}{15} \\ &= \frac{14}{15} \end{aligned}$$

$$\begin{aligned} \text{b) } \frac{3}{5} + \frac{1}{11} &= \left(\frac{3}{5} \times \frac{11}{11}\right) + \left(\frac{1}{11} \times \frac{5}{5}\right) \\ &= \frac{33}{55} + \frac{5}{55} \\ &= \frac{38}{55} \end{aligned}$$

$$\begin{aligned} \text{c) } \frac{2}{9} + \frac{5}{6} &= \left(\frac{2}{9} \times \frac{2}{2}\right) + \left(\frac{5}{6} \times \frac{3}{3}\right) \\ &= \frac{4}{18} + \frac{15}{18} \\ &= \frac{19}{18} = 1\frac{1}{18} \end{aligned}$$

$$\begin{aligned} \text{d) } \frac{2}{5} + \frac{1}{4} + \frac{1}{10} &= \left(\frac{2}{5} \times \frac{4}{4}\right) + \left(\frac{1}{4} \times \frac{5}{5}\right) + \left(\frac{1}{10} \times \frac{2}{2}\right) \\ &= \frac{8}{20} + \frac{5}{20} + \frac{2}{20} \\ &= \frac{15}{20} = \frac{3 \times 5}{4 \times 5} = \frac{3}{4} \end{aligned}$$

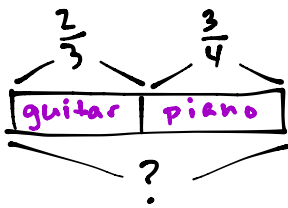
$$\begin{aligned} \text{e) } \frac{1}{3} + \frac{7}{5} &= \left(\frac{1}{3} \times \frac{5}{5}\right) + \left(\frac{7}{5} \times \frac{3}{3}\right) \\ &= \frac{5}{15} + \frac{21}{15} \\ &= \frac{26}{15} = 1\frac{11}{15} \end{aligned}$$

$$\begin{aligned} \text{f) } \frac{5}{8} + \frac{7}{12} &= \left(\frac{5}{8} \times \frac{3}{3}\right) + \left(\frac{7}{12} \times \frac{2}{2}\right) \\ &= \frac{15}{24} + \frac{14}{24} \\ &= \frac{29}{24} = 1\frac{5}{24} \end{aligned}$$

$$\begin{aligned} \text{g) } 1\frac{1}{3} + \frac{3}{4} &= 1 + \left(\frac{1}{3} \times \frac{4}{4}\right) + \left(\frac{3}{4} \times \frac{3}{3}\right) \\ &= 1 + \frac{4}{12} + \frac{9}{12} \\ &= 1 + \frac{13}{12} \\ &= 1 + 1\frac{1}{12} = 2\frac{1}{12} \end{aligned}$$

$$\begin{aligned} \text{h) } \frac{5}{6} + 1\frac{1}{4} &= \left(\frac{5}{6} \times \frac{2}{2}\right) + 1 + \left(\frac{1}{4} \times \frac{3}{3}\right) \\ &= \frac{10}{12} + 1 + \frac{3}{12} \\ &= 1 + \frac{13}{12} \\ &= 1 + 1\frac{1}{12} = 2\frac{1}{12} \end{aligned}$$

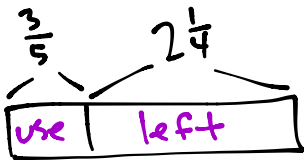
2. On Monday, Ka practices guitar for $\frac{2}{3}$ of one hour. When she's finished, she practices piano for $\frac{3}{4}$ of one hour. How much time did Ka spend practicing instruments on Monday?



$$\begin{aligned} \frac{2}{3} + \frac{3}{4} &= \left(\frac{2}{3} \times \frac{4}{4}\right) + \left(\frac{3}{4} \times \frac{3}{3}\right) \\ &= \frac{8}{12} + \frac{9}{12} \\ &= \frac{17}{12} \\ &= 1\frac{5}{12} \end{aligned}$$

Ka spent $1\frac{5}{12}$ hours practicing her instruments.

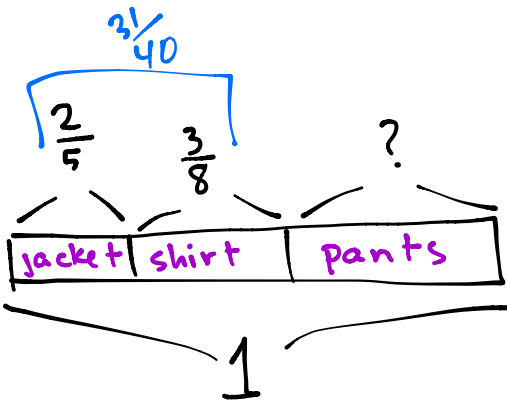
3. Ms. How buys a bag of rice to cook dinner. She used $\frac{3}{5}$ kg of rice and still had $2\frac{1}{4}$ kg left. How heavy was the bag of rice that Ms. How bought?



$$\begin{aligned} 2\frac{1}{4} + \frac{3}{5} &= 2 + \frac{1}{4} + \frac{3}{5} \\ &= 2 + \left(\frac{1}{4} \times \frac{5}{5}\right) + \left(\frac{3}{5} \times \frac{4}{4}\right) \\ &= 2 + \frac{5}{20} + \frac{12}{20} \\ &= 2\frac{17}{20} \end{aligned}$$

The bag of rice weighed $2\frac{17}{20}$ kg.

4. Joe spends $\frac{2}{5}$ of his money on a jacket and $\frac{3}{8}$ of his money on a shirt. He spends the rest on a pair of pants. What fraction of his money does he use to buy the pants?



$$\begin{aligned} \frac{2}{5} + \frac{3}{8} &= \left(\frac{2}{5} \times \frac{8}{8}\right) + \left(\frac{3}{8} \times \frac{5}{5}\right) \\ &= \frac{16}{40} + \frac{15}{40} \\ &= \frac{31}{40} \end{aligned}$$

$$1 - \frac{31}{40} = \frac{40}{40} - \frac{31}{40} = \frac{9}{40}$$

Joe spent $\frac{9}{40}$ of his money on pants.