

Add / Subtract Word Problems

2. Edward

$$\begin{array}{r} \times 3 \left(\frac{3}{4} \right. \\ \hline 9 \\ \hline 12 \end{array}$$

James

$$\begin{array}{r} \frac{7}{12} \\ \hline 7 \\ \hline 12 \end{array}$$

Charles

$$\begin{array}{r} \frac{2}{3} \\ \hline 8 \\ \hline 12 \end{array} \right) \times 4$$

- a) Most was Edward
b) Least was Charles

6. Mrs. Morris

$$\begin{array}{r} \times 2 \left(\frac{18}{30} \right. \\ \hline 36 \\ \hline 60 \end{array}$$

Mrs. Payne

$$\begin{array}{r} \frac{12}{20} \\ \hline 36 \\ \hline 60 \end{array} \right) \times 3$$

- a) Both $\frac{36}{60} = \frac{3}{5}$ girls
b) Both the same

8. $5\frac{1}{4} - 3\frac{3}{4}$

$$= \frac{21}{4} - \frac{15}{4}$$

$$= \frac{6}{4}$$

$$= 1\frac{2}{4}$$

$$= 1\frac{1}{2} \text{ miles}$$

9. $2\frac{3}{5} + 4\frac{9}{10}$

$$= \frac{13}{5} + \frac{49}{10}$$

$$\times 2 \left(\frac{26}{10} + \frac{49}{10} \right)$$

$$= \frac{75}{10}$$

$$= 7\frac{5}{10} = 7\frac{1}{2} \text{ kg}$$

$$12. \quad 6\frac{1}{3} - 2\frac{5}{8}$$

$$= \frac{19}{3} - \frac{21}{8}$$

$$\begin{array}{l} \times 8 \quad \times 3 \\ \downarrow \quad \downarrow \\ = \frac{152}{24} - \frac{63}{24} \end{array}$$

$$= \frac{89}{24}$$

$$= 3\frac{17}{24} \text{ m}$$

$$13. \quad 4\frac{1}{3} + 2\frac{1}{4} + 5\frac{1}{6}$$

$$= \frac{13}{3} + \frac{9}{4} + \frac{31}{6}$$

$$\begin{array}{l} \times 4 \quad \times 3 \quad \times 2 \\ \downarrow \quad \downarrow \quad \downarrow \\ = \frac{52}{12} + \frac{27}{12} + \frac{62}{12} \end{array}$$

$$= \frac{141}{12}$$

$$= 11\frac{9}{12}$$

$$= 11\frac{3}{4} \text{ m}$$

$$16. \quad \frac{3}{5} + \frac{1}{8}$$

$$\begin{array}{l} \times 8 \quad \times 5 \\ \downarrow \quad \downarrow \\ = \frac{24}{40} + \frac{5}{40} \end{array}$$

$$= \frac{29}{40}$$

$$\text{Colin} = 1 - \frac{29}{40}$$

$$= \frac{40}{40} - \frac{29}{40}$$

$$= \frac{11}{40}$$

$$21. \quad \frac{1}{4} + \frac{1}{5}$$

$$\begin{array}{l} \times 5 \quad \times 4 \\ \downarrow \quad \downarrow \\ = \frac{5}{20} + \frac{4}{20} \end{array}$$

$$= \frac{9}{20}$$

$$\text{Left} = 1 - \frac{9}{20}$$

$$= \frac{20}{20} - \frac{9}{20}$$

$$= \frac{11}{20}$$

$$24. \quad \frac{1}{3} + \frac{1}{4} + \frac{1}{8}$$

$$\begin{array}{l} \times 8 \quad \times 6 \quad \times 3 \\ \downarrow \quad \downarrow \quad \downarrow \\ = \frac{8}{24} + \frac{6}{24} + \frac{3}{24} \end{array}$$

$$= \frac{17}{24}$$

$$\text{Shabina} = 1 - \frac{17}{24}$$

$$= \frac{24}{24} - \frac{17}{24} = \frac{7}{24}$$

$$\text{Perimeter} = \text{length} + \text{length} + \text{width} + \text{width}$$

$$26. \text{ a) } P = 8\frac{1}{6} \text{ m}$$

$$\text{length} = 2\frac{3}{4} \text{ m}$$

$$2\frac{3}{4} + 2\frac{3}{4}$$

$$= \frac{11}{4} + \frac{11}{4}$$

$$= \frac{22}{4}$$

$$2 \text{ widths} = 8\frac{1}{6} - \frac{22}{4}$$

$$= \frac{49}{6} - \frac{22}{4}$$

$$= \frac{98}{12} - \frac{66}{12}$$

$$= \frac{32}{12}$$

$$\Rightarrow \text{one width} = \frac{16}{12}$$

$$= 1\frac{4}{12}$$

$$= 1\frac{1}{3} \text{ m}$$

$$\text{b) } P = 12\frac{9}{10} \text{ m}$$

$$\text{width} = 2\frac{1}{4} \text{ m}$$

$$2\frac{1}{4} + 2\frac{1}{4}$$

$$= \frac{9}{4} + \frac{9}{4}$$

$$= \frac{18}{4}$$

$$2 \text{ lengths} = 12\frac{9}{10} - \frac{18}{4}$$

$$= \frac{129}{10} - \frac{18}{4}$$

$$\begin{array}{r} \times 2 \quad \left(\begin{array}{l} \downarrow 258 \\ \hline 20 \end{array} \right) \quad \left(\begin{array}{l} \downarrow 90 \\ \hline 20 \end{array} \right) \times 5 \\ = \frac{258}{20} - \frac{90}{20} \end{array}$$

$$= \frac{168}{20}$$

$$\Rightarrow \text{one length} = \frac{84}{20}$$

$$= 4\frac{4}{20}$$

$$= 4\frac{1}{5} \text{ m}$$

$$26. c) P = 17\frac{7}{12} \text{ m}$$

$$\text{length} = 3\frac{1}{8} \text{ m}$$

$$\begin{aligned} & 3\frac{1}{8} + 3\frac{1}{8} \\ &= \frac{25}{8} + \frac{25}{8} \\ &= \frac{50}{8} \end{aligned}$$

$$2 \text{ widths} = 17\frac{7}{12} - \frac{50}{8}$$

$$\begin{aligned} &= \frac{211}{12} - \frac{50}{8} \\ &\begin{array}{l} \times 2 \left(\frac{422}{24} - \frac{150}{24} \right) \times 3 \\ \phantom{\left(\frac{422}{24} - \frac{150}{24} \right)} \end{array} \\ &= \frac{272}{24} \end{aligned}$$

$$\Rightarrow \text{one width} = \frac{136}{24}$$

$$\begin{aligned} &= 5\frac{16}{24} \\ &= 5\frac{2}{3} \text{ m} \end{aligned}$$

$$d) P = 10\frac{2}{45} \text{ m}$$

$$\text{width} = 1\frac{4}{5} \text{ m}$$

$$\begin{aligned} & 1\frac{4}{5} + 1\frac{4}{5} \\ &= \frac{9}{5} + \frac{9}{5} \\ &= \frac{18}{5} \end{aligned}$$

$$2 \text{ lengths} = 10\frac{2}{45} - \frac{18}{5}$$

$$\begin{aligned} &= \frac{452}{45} - \frac{18}{5} \\ &= \frac{452}{45} - \frac{162}{45} \quad \left. \begin{array}{l} \\ \end{array} \right\} \times 9 \\ &= \frac{290}{45} \end{aligned}$$

$$\Rightarrow \text{one width} = \frac{145}{45}$$

$$\begin{aligned} &= 3\frac{10}{45} \\ &= 3\frac{2}{9} \text{ m} \end{aligned}$$