

ADDING AND SUBTRACTING FRACTIONS ANSWERS

1.



$$\frac{4}{5} + \frac{3}{5} = \frac{7}{5} = 1\frac{2}{5}$$



$$\frac{6}{5} + \frac{3}{5} = \frac{9}{5} = 1\frac{4}{5}$$



$$\frac{8}{5} - \frac{6}{5} = \frac{2}{5}$$



$$\frac{9}{5} - \frac{3}{5} = \frac{6}{5} = 1\frac{1}{5}$$

2.

a) $\frac{4}{7} + \frac{2}{7} = \frac{6}{7}$

b) $\frac{4}{7} + \frac{3}{7} = \frac{7}{7} = 1$

c) $\frac{4}{7} + \frac{4}{7} = \frac{8}{7} = 1\frac{1}{7}$

d) $\frac{8}{7} - \frac{3}{7} = \frac{5}{7}$

e) $\frac{7}{9} + \frac{8}{9} = \frac{15}{9} = 1\frac{2}{3}$

f) $\frac{17}{9} - \frac{8}{9} = \frac{9}{9} = 1$

g) $\frac{16}{9} - \frac{8}{9} = \frac{8}{9}$

h) $\frac{7}{9} + \frac{2}{9} + \frac{8}{9} = \frac{17}{9} = 1\frac{8}{9}$

i) $\frac{7}{15} + \frac{2}{15} + \frac{8}{15} = \frac{17}{15} = 1\frac{2}{15}$

j) $\frac{7}{15} - \frac{2}{15} + \frac{8}{15} = \frac{13}{15}$

3.

Give six different possibilities.

e.g.

$$\frac{1}{8} + \frac{12}{8} = \frac{13}{8}$$

$$\frac{4}{8} + \frac{9}{8} = \frac{13}{8}$$

$$\frac{2}{8} + \frac{11}{8} = \frac{13}{8}$$

$$\frac{5}{8} + \frac{8}{8} = \frac{13}{8}$$

$$\frac{3}{8} + \frac{10}{8} = \frac{13}{8}$$

$$\frac{7}{8} + \frac{6}{8} = \frac{13}{8}$$

You may have got different answers

4.

$$\text{a)} \quad \frac{3}{8} + \frac{\boxed{10}}{8} = \frac{13}{8}$$

$$\text{b)} \quad \frac{13}{8} - \frac{\boxed{6}}{8} = \frac{7}{8}$$

$$\text{c)} \quad \frac{13}{8} - \frac{\boxed{5}}{8} = 1$$

$$\text{d)} \quad \frac{11}{9} + \frac{\boxed{11}}{9} = \frac{22}{9} = 2\frac{\boxed{4}}{9}$$

$$\text{e)} \quad \frac{11}{9} + \frac{\boxed{9}}{9} = \frac{\boxed{20}}{9} = 2\frac{2}{9}$$

$$\text{f)} \quad \frac{22}{9} - \frac{\boxed{2}}{9} = \frac{\boxed{20}}{9} = 2\frac{2}{9}$$

$$\text{g)} \quad \frac{4}{7} + \frac{\boxed{6}}{7} + \frac{4}{7} = 2$$

$$\text{h)} \quad \frac{5}{7} + \frac{\boxed{4}}{7} + \frac{5}{7} = 2$$

$$\text{i)} \quad \frac{6}{7} + \frac{\boxed{2}}{7} + \frac{6}{7} = 2$$

$$\text{j)} \quad \frac{14}{7} + \frac{\boxed{3}}{7} + \frac{4}{7} = 3$$

$$\text{k)} \quad \frac{15}{7} + \frac{\boxed{1}}{7} + \frac{5}{7} = 3$$

$$\text{l)} \quad \frac{16}{7} + \frac{\boxed{6}}{7} + \frac{6}{7} = 4$$

ADDING AND SUBTRACTING FRACTIONS CHALLENGE

ANSWERS

1.

Dora has $1\frac{1}{4}$ litres left.

2.

$$1\frac{7}{8} + \frac{1}{8} = 2$$

$$\frac{13}{8} + \frac{3}{8} = 2$$

$$\frac{9}{8} + \frac{7}{8} = 2$$

3.

Annie's rope is $1\frac{1}{4}$ m long. Dexter's rope is 2 m long.