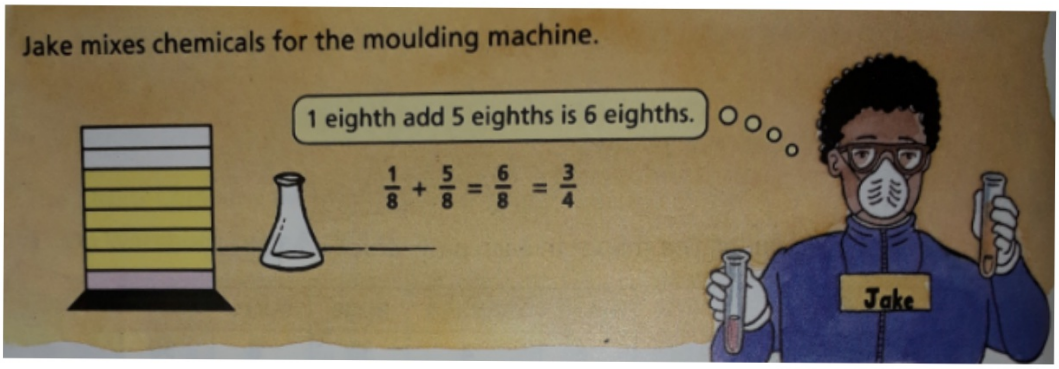
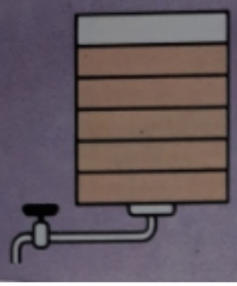


1 Copy and complete.

(a) $\frac{2}{5} + \frac{1}{5}$ (b) $\frac{3}{10} + \frac{6}{10}$ (c) $\frac{2}{8} + \frac{3}{8}$ (d) $\frac{1}{4} + \frac{3}{4}$ (e) $\frac{2}{6} + \frac{3}{6}$

(f) $\frac{1}{10} + \frac{7}{10}$ (g) $\frac{2}{8} + \frac{4}{8}$ (h) $\frac{2}{5} + \frac{2}{5}$ (i) $\frac{2}{10} + \frac{3}{10}$ (j) $\frac{1}{6} + \frac{3}{6}$

Mia drains $\frac{1}{6}$ of this container.



5 sixths take away 1 sixth is 4 sixths.

$$\frac{5}{6} - \frac{1}{6} = \frac{4}{6}$$

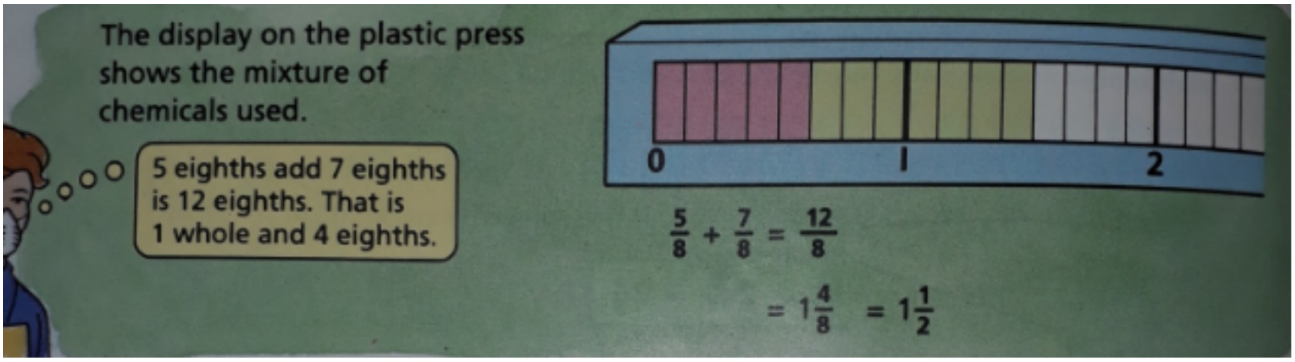
$$= \frac{2}{3}$$

2 Copy and complete.

(a) $\frac{9}{10} - \frac{2}{10}$ (b) $\frac{5}{6} - \frac{4}{6}$ (c) $\frac{7}{8} - \frac{2}{8}$ (d) $\frac{2}{3} - \frac{1}{3}$ (e) $\frac{7}{10} - \frac{6}{10}$

(f) $\frac{5}{8} - \frac{1}{8}$ (g) $\frac{5}{6} - \frac{1}{6}$ (h) $1 - \frac{2}{10}$ (i) $1 - \frac{6}{8}$ (j) $\frac{1}{2} - \frac{1}{4}$

The display on the plastic press shows the mixture of chemicals used.



5 eighths add 7 eighths is 12 eighths. That is 1 whole and 4 eighths.

$$\frac{5}{8} + \frac{7}{8} = \frac{12}{8}$$

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

3 Copy and complete.

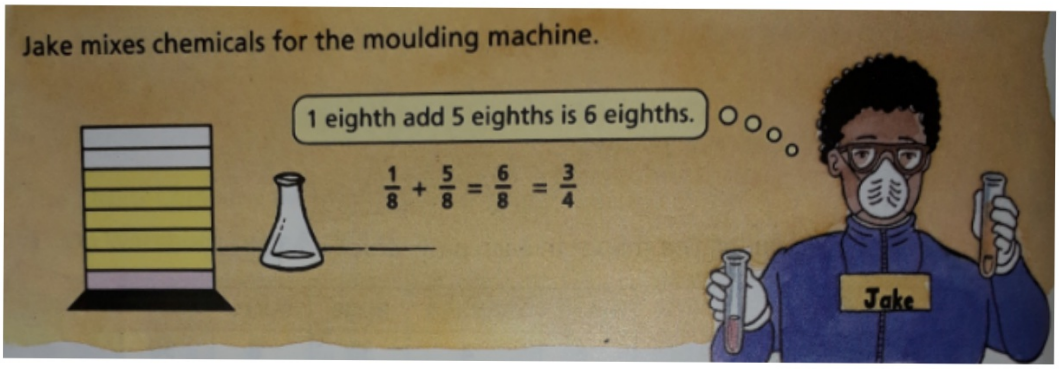
(a) $\frac{9}{10} + \frac{2}{10}$ (b) $\frac{5}{8} + \frac{4}{8}$ (c) $\frac{4}{5} + \frac{4}{5}$ (d) $\frac{5}{6} + \frac{2}{6}$ (e) $\frac{2}{3} + \frac{2}{3}$

(f) $\frac{8}{10} + \frac{4}{10}$ (g) $\frac{3}{8} + \frac{7}{8}$ (h) $\frac{5}{6} + \frac{3}{6}$ (i) $\frac{8}{10} + \frac{7}{10}$ (j) $\frac{3}{4} + \frac{3}{4}$

Addition of fractions

A 1. $\frac{3}{5} + \frac{1}{5} =$	2. $\frac{3}{10} + \frac{5}{10} =$	3. $\frac{7}{20} + \frac{9}{20} =$	4. $\frac{5}{12} + \frac{5}{12} =$
5. $\frac{3}{16} + \frac{5}{16} =$	6. $\frac{3}{8} + \frac{3}{8} =$	7. $\frac{7}{15} + \frac{7}{15} =$	8. $\frac{1}{6} + \frac{3}{6} =$
B 1. $\frac{3}{5} + \frac{3}{5} =$	2. $\frac{7}{8} + \frac{5}{8} =$	3. $\frac{7}{12} + \frac{11}{12} =$	4. $\frac{5}{6} + \frac{5}{6} =$
5. $\frac{17}{20} + \frac{11}{20} =$	6. $\frac{7}{10} + \frac{9}{10} =$	7. $\frac{11}{16} + \frac{15}{16} =$	8. $\frac{6}{7} + \frac{6}{7} =$
C 1. $\frac{2}{5} + \frac{3}{10} =$	2. $\frac{1}{2} + \frac{1}{4} =$	3. $\frac{1}{4} + \frac{5}{8} =$	4. $\frac{7}{20} + \frac{3}{5} =$
5. $\frac{7}{16} + \frac{3}{8} =$	6. $\frac{1}{6} + \frac{7}{12} =$	7. $\frac{17}{20} + \frac{1}{40} =$	8. $\frac{1}{3} + \frac{4}{9} =$
D 1. $\frac{4}{5} + \frac{7}{10} =$	2. $\frac{3}{4} + \frac{5}{12} =$	3. $\frac{9}{20} + \frac{3}{5} =$	4. $\frac{5}{6} + \frac{11}{12} =$
5. $\frac{6}{7} + \frac{11}{14} =$	6. $\frac{4}{5} + \frac{7}{15} =$	7. $\frac{19}{24} + \frac{7}{12} =$	8. $\frac{7}{8} + \frac{3}{4} =$

Choose challenge A, B or C to start. If you finish that section, choose one more challenge!

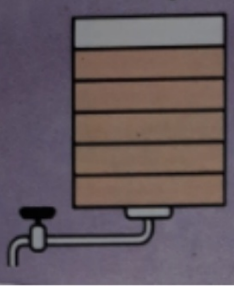


1 Copy and complete.

(a) $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$ (b) $\frac{3}{10} + \frac{6}{10} = \frac{9}{10}$ (c) $\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$ (d) $\frac{1}{4} + \frac{3}{4} = \frac{4}{4} = 1$ (e) $\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$

(f) $\frac{1}{10} + \frac{7}{10} = \frac{8}{10} = \frac{4}{5}$ (g) $\frac{2}{8} + \frac{4}{8} = \frac{6}{8} = \frac{3}{4}$ (h) $\frac{2}{5} + \frac{2}{5} = \frac{4}{5}$ (i) $\frac{2}{10} + \frac{3}{10} = \frac{5}{10} = \frac{1}{2}$ (j) $\frac{1}{6} + \frac{3}{6} = \frac{4}{6} = \frac{2}{3}$

Mia drains $\frac{1}{6}$ of this container.



5 sixths take away 1 sixth is 4 sixths.

$$\frac{5}{6} - \frac{1}{6} = \frac{4}{6}$$

$$= \frac{2}{3}$$

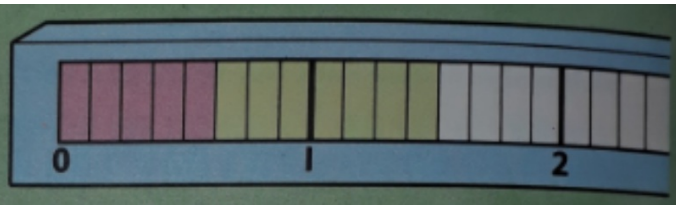
2 Copy and complete.

(a) $\frac{9}{10} - \frac{2}{10} = \frac{7}{10}$ (b) $\frac{5}{6} - \frac{4}{6} = \frac{1}{6}$ (c) $\frac{7}{8} - \frac{2}{8} = \frac{5}{8}$ (d) $\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$ (e) $\frac{7}{10} - \frac{6}{10} = \frac{1}{10}$

(f) $\frac{5}{8} - \frac{1}{8} = \frac{4}{8} = \frac{1}{2}$ (g) $\frac{5}{6} - \frac{1}{6} = \frac{4}{6} = \frac{2}{3}$ (h) $1 - \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$ (i) $1 - \frac{6}{8} = \frac{2}{8} = \frac{1}{4}$ (j) $\frac{1}{2} - \frac{1}{4} = \frac{1}{4}$

The display on the plastic press shows the mixture of chemicals used.

5 eighths add 7 eighths is 12 eighths. That is 1 whole and 4 eighths.



$\frac{5}{8} + \frac{7}{8} = \frac{12}{8}$

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

3 Copy and complete.

(a) $\frac{9}{10} + \frac{2}{10}$ (b) $\frac{5}{8} + \frac{4}{8}$ (c) $\frac{4}{5} + \frac{4}{5}$ (d) $\frac{5}{6} + \frac{2}{6}$ (e) $\frac{2}{3} + \frac{2}{3}$

(f) $\frac{8}{10} + \frac{4}{10}$ (g) $\frac{3}{8} + \frac{7}{8}$ (h) $\frac{5}{6} + \frac{3}{6}$ (i) $\frac{8}{10} + \frac{7}{10}$ (j) $\frac{3}{4} + \frac{3}{4}$

a) $\frac{11}{10} = 1\frac{1}{10}$ b) $\frac{9}{8} = 1\frac{1}{8}$ c) $\frac{8}{5} = 1\frac{3}{5}$ d) $\frac{7}{6} = 1\frac{1}{6}$ e) $\frac{4}{3} = 1\frac{1}{3}$

f) $\frac{12}{10} = 1\frac{2}{10} = 1\frac{1}{5}$ g) $\frac{10}{8} = 1\frac{2}{8} = 1\frac{1}{4}$ h) $\frac{8}{6} = 1\frac{2}{6} = 1\frac{1}{3}$ i) $\frac{15}{10} = 1\frac{5}{10} = 1\frac{1}{2}$ j) $\frac{6}{4} = 1\frac{2}{4} = 1\frac{1}{2}$

Addition of fractions

A

1. $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$
2. $\frac{3}{10} + \frac{5}{10} = \frac{8}{10} = \frac{4}{5}$
3. $\frac{7}{20} + \frac{9}{20} = \frac{16}{20} = \frac{4}{5}$
4. $\frac{5}{12} + \frac{5}{12} = \frac{10}{12} = \frac{5}{6}$
5. $\frac{3}{16} + \frac{5}{16} = \frac{8}{16} = \frac{1}{2}$
6. $\frac{3}{8} + \frac{3}{8} = \frac{6}{8} = \frac{3}{4}$
7. $\frac{7}{15} + \frac{7}{15} = \frac{14}{15}$
8. $\frac{1}{6} + \frac{3}{6} = \frac{4}{6} = \frac{2}{3}$

B

1. $\frac{3}{5} + \frac{3}{5} = \frac{6}{5} = 1\frac{1}{5}$
2. $\frac{7}{8} + \frac{5}{8} = \frac{12}{8} = 1\frac{4}{8} = 1\frac{1}{2}$
3. $\frac{7}{12} + \frac{11}{12} = \frac{18}{12} = 1\frac{6}{12} = 1\frac{1}{2}$
4. $\frac{5}{6} + \frac{5}{6} = \frac{10}{6} = 1\frac{4}{6} = 1\frac{2}{3}$
5. $\frac{17}{20} + \frac{11}{20} = \frac{28}{20} = 1\frac{8}{20} = 1\frac{2}{5}$
6. $\frac{7}{10} + \frac{9}{10} = \frac{16}{10} = 1\frac{6}{10} = 1\frac{3}{5}$
7. $\frac{11}{16} + \frac{15}{16} = \frac{26}{16} = 1\frac{10}{16} = 1\frac{5}{8}$
8. $\frac{6}{7} + \frac{6}{7} = \frac{12}{7} = 1\frac{5}{7}$

C

1. $\frac{2}{5} + \frac{3}{10} = \frac{4}{10} + \frac{3}{10} = \frac{7}{10}$
2. $\frac{1}{2} + \frac{1}{4} = \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$
3. $\frac{1}{4} + \frac{5}{8} = \frac{2}{8} + \frac{5}{8} = \frac{7}{8}$
4. $\frac{7}{20} + \frac{3}{5} = \frac{7}{20} + \frac{12}{20} = \frac{19}{20}$
5. $\frac{7}{16} + \frac{3}{8} = \frac{7}{16} + \frac{6}{16} = \frac{13}{16}$
6. $\frac{1}{6} + \frac{7}{12} = \frac{2}{12} + \frac{7}{12} = \frac{9}{12} = \frac{3}{4}$
7. $\frac{17}{20} + \frac{1}{40} = \frac{34}{40} + \frac{1}{40} = \frac{35}{40} = \frac{7}{8}$
8. $\frac{1}{3} + \frac{4}{9} = \frac{3}{9} + \frac{4}{9} = \frac{7}{9}$

D

1. $\frac{4}{5} + \frac{7}{10} = \frac{8}{10} + \frac{7}{10} = \frac{15}{10} = 1\frac{5}{10} = 1\frac{1}{2}$
2. $\frac{3}{4} + \frac{5}{12} = \frac{9}{12} + \frac{5}{12} = \frac{14}{12} = 1\frac{2}{12} = 1\frac{1}{6}$
3. $\frac{9}{20} + \frac{3}{5} = \frac{9}{20} + \frac{12}{20} = \frac{21}{20} = 1\frac{1}{20}$
4. $\frac{5}{6} + \frac{11}{12} = \frac{10}{12} + \frac{11}{12} = \frac{21}{12} = 1\frac{9}{12} = 1\frac{3}{4}$
5. $\frac{6}{7} + \frac{11}{14} = \frac{12}{14} + \frac{11}{14} = \frac{23}{14} = 1\frac{9}{14}$
6. $\frac{4}{5} + \frac{7}{15} = \frac{12}{15} + \frac{7}{15} = \frac{19}{15} = 1\frac{4}{15}$
7. $\frac{19}{24} + \frac{7}{12} = \frac{19}{24} + \frac{14}{24} = \frac{33}{24} = 1\frac{9}{24} = 1\frac{3}{8}$
8. $\frac{7}{8} + \frac{3}{4} = \frac{7}{8} + \frac{6}{8} = \frac{13}{8} = 1\frac{5}{8}$

Choose challenge A, B or C to start. If you finish that section, choose one more challenge!