



Adding and subtracting fractions

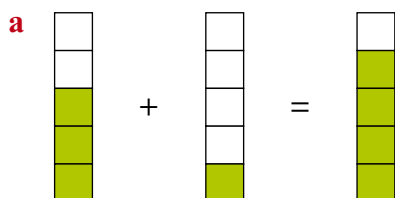
- Adding fractions
- Subtracting fractions

Keywords

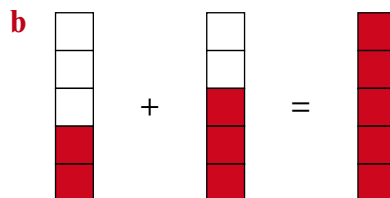
You should know

explanation 1

1 Copy and complete the fraction additions shown by these diagrams.

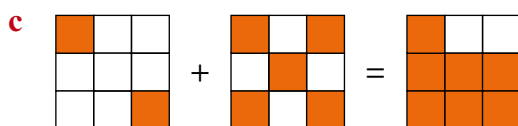


$$\frac{\square}{5} + \frac{\square}{5} = \frac{\square}{5}$$

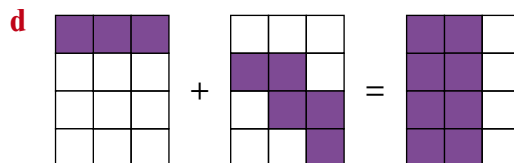


$$\frac{\square}{5} + \frac{\square}{5} = \frac{\square}{5}$$

$$= \square$$

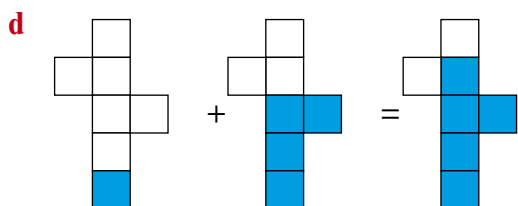


$$\frac{\square}{9} + \frac{\square}{\square} = \frac{\square}{\square}$$

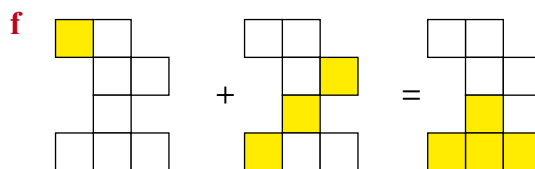


$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$

$$= \frac{\square}{3}$$



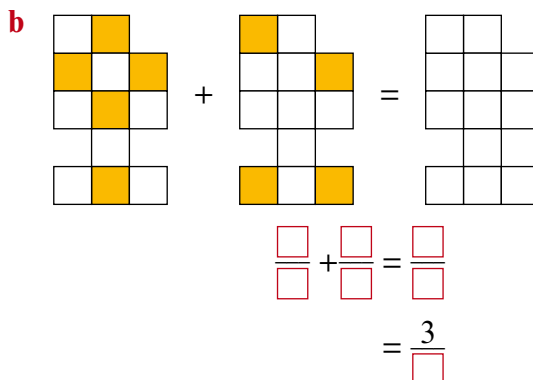
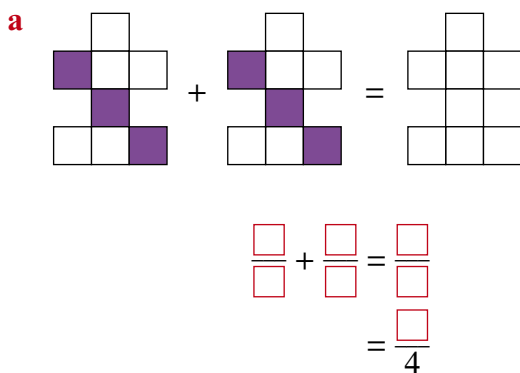
$$\frac{\square}{7} + \frac{\square}{\square} = \frac{\square}{\square}$$



$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$

$$= \frac{\square}{2}$$

2 Copy and complete these diagrams and fraction calculations.



3 Simplify these as far as possible.

a $\frac{5}{9} + \frac{2}{9}$

b $\frac{7}{12} + \frac{1}{12}$

c $\frac{3}{10} + \frac{5}{10}$

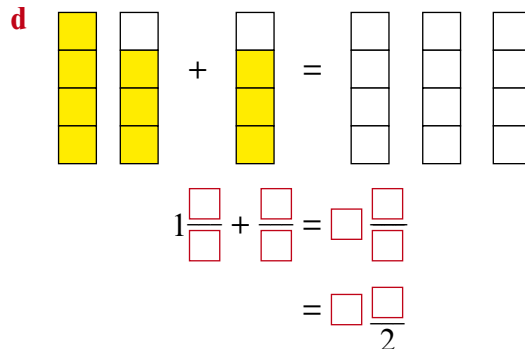
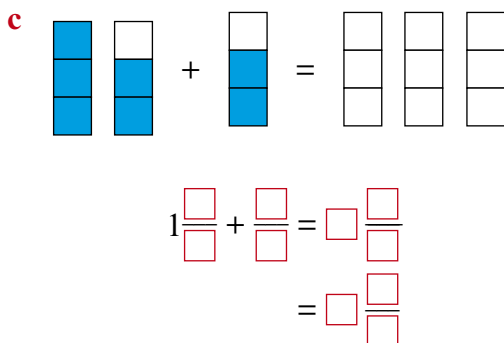
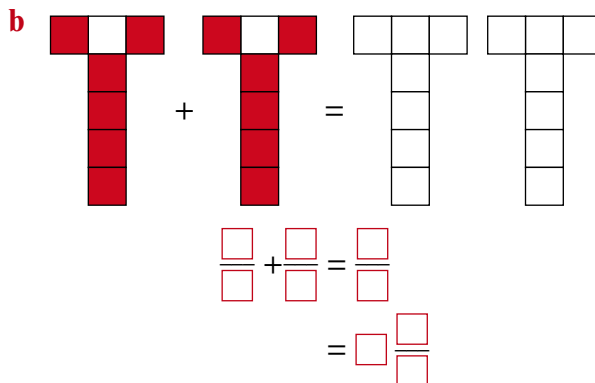
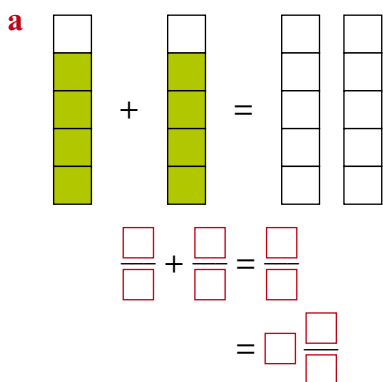
d $\frac{7}{15} + \frac{5}{15}$

e $\frac{3}{16} + \frac{4}{16} + \frac{5}{16}$

f $\frac{2}{11} + \frac{6}{11} + \frac{3}{11}$

explanation 2

4 Copy and complete these diagrams and fraction calculations.



5 Simplify these as far as possible.

a $\frac{7}{9} + \frac{6}{9}$

b $\frac{9}{12} + \frac{4}{12}$

c $\frac{2}{7} + \frac{5}{7}$

d $\frac{7}{8} + \frac{3}{8}$

e $\frac{4}{6} + \frac{5}{6}$

f $\frac{17}{20} + \frac{8}{20}$

6 Simplify these as far as possible.

a $1\frac{2}{5} + \frac{2}{5}$

b $1\frac{2}{5} + \frac{4}{5}$

c $1\frac{5}{8} + \frac{6}{8}$

d $1\frac{11}{12} + \frac{7}{12}$

e $2\frac{9}{10} + \frac{5}{10}$

f $3\frac{5}{6} + \frac{4}{6}$

explanation 3

7 Simplify these as far as possible.

a $\frac{8}{9} - \frac{5}{9}$

b $\frac{10}{12} - \frac{1}{12}$

c $\frac{13}{15} - \frac{3}{15}$

d $1 - \frac{2}{5}$

e $1 - \frac{7}{10}$

f $2 - \frac{3}{8}$

g $7 - \frac{4}{11}$

h $9 - \frac{3}{20}$

i $16 - \frac{9}{25}$

8 Simplify these as far as possible.

a $1\frac{1}{3} - \frac{2}{3}$

b $1\frac{1}{4} - \frac{3}{4}$

c $2\frac{4}{9} - \frac{7}{9}$

explanation 4

9 Copy and complete this diagram and fraction calculation.

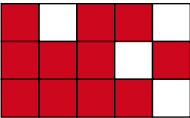
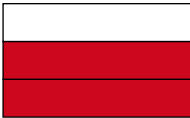
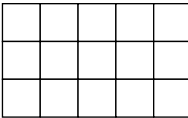


$$\frac{\square}{5} + \frac{\square}{\square} = \frac{\square}{10} + \frac{\square}{\square}$$

$$= \frac{\square}{\square}$$

10 Copy and complete these diagrams and fractions calculations.


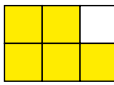
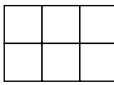
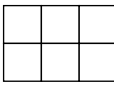
a


 $-$

 $=$


$$\frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{3} = \frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{\boxed{}}$$

$$= \frac{\boxed{}}{\boxed{}}$$

b


 $+$

 $=$



$$\frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}} + \frac{\boxed{}}{\boxed{}}$$

$$= \frac{\boxed{}}{\boxed{}}$$

***11** Simplify these fraction calculations as far as possible.

a $\frac{1}{2} + \frac{3}{8}$

b $\frac{3}{4} + \frac{7}{16}$

c $\frac{11}{12} - \frac{1}{6}$

d $\frac{17}{20} + \frac{4}{5}$

e $\frac{11}{15} - \frac{2}{3}$

f $\frac{9}{25} - \frac{14}{75}$

***12** Simplify these fraction calculations as far as possible.

a $\frac{9}{10} + \frac{3}{5}$

b $\frac{5}{6} + \frac{7}{24}$

c $\frac{41}{50} + \frac{6}{25}$

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

e $3\frac{7}{12} - \frac{1}{3}$

f $9\frac{1}{4} - \frac{5}{12}$

g $\frac{9}{10} + \frac{7}{20} + \frac{3}{5}$

h $\frac{2}{3} + \frac{7}{12} - \frac{1}{6}$

i $\frac{23}{25} - \frac{9}{50} + \frac{7}{10}$

***13** Tara spends $\frac{1}{5}$ of her pocket money on sweets and $\frac{2}{3}$ on clothes. She saves the rest.

What proportion of her pocket money does Tara save?

