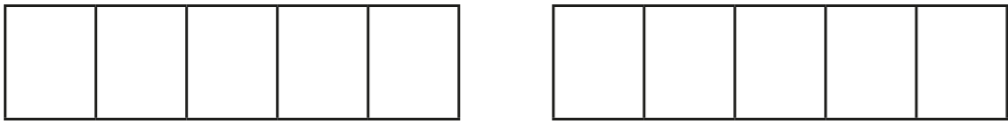
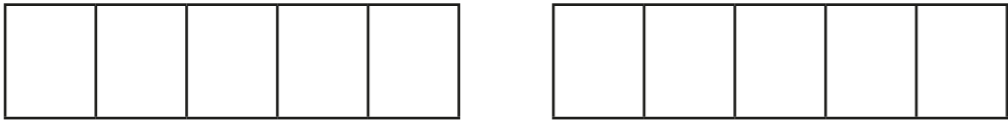



Add and subtract fractions

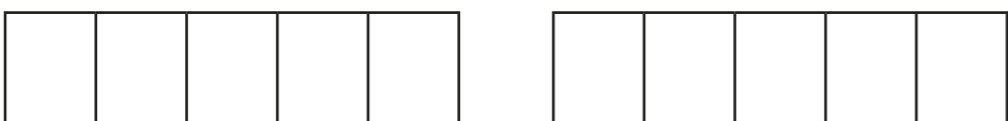


1 Complete the calculations.
Use the bar models to help you.

a) 
 $\frac{4}{5} + \frac{3}{5} = \square = \square$

b) 
 $\frac{6}{5} + \frac{3}{5} = \square = \square$

c) 
 $\frac{8}{5} - \frac{6}{5} = \square$

d) 
 $\frac{9}{5} - \frac{3}{5} = \square = \square$

2 Complete the calculations.

- a) $\frac{4}{7} + \frac{2}{7} = \square$
- b) $\frac{4}{7} + \frac{3}{7} = \square = \square$
- c) $\frac{4}{7} + \frac{4}{7} = \square = \square$
- d) $\frac{8}{7} - \frac{3}{7} = \square$
- e) $\frac{7}{9} + \frac{8}{9} = \square = \square$
- f) $\frac{17}{9} - \frac{8}{9} = \square = \square$
- g) $\frac{16}{9} - \frac{8}{9} = \square$
- h) $\frac{7}{9} + \frac{2}{9} + \frac{8}{9} = \square = \square$
- i) $\frac{7}{15} + \frac{2}{15} + \frac{8}{15} = \square = \square$
- j) $\frac{7}{15} - \frac{2}{15} + \frac{8}{15} = \square$

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

What could the missing numerators be?
Give six different possibilities.

- $\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$
- $\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$
- $\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$
- $\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$
- $\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$
- $\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$



4 Dora has $2\frac{3}{8}$ litres of juice.

She pours out $\frac{9}{8}$ litres of juice.

How many litres of juice does she have left?

Dora has litres left.

5 Fill in the missing numerators.

a) $\frac{3}{8} + \frac{\square}{8} = \frac{13}{8}$

g) $\frac{4}{7} + \frac{\square}{7} + \frac{4}{7} = 2$

b) $\frac{13}{8} - \frac{\square}{8} = \frac{7}{8}$

h) $\frac{5}{7} + \frac{\square}{7} + \frac{5}{7} = 2$

c) $\frac{13}{8} - \frac{\square}{8} = 1$

i) $\frac{6}{7} + \frac{\square}{7} + \frac{6}{7} = 2$

d) $\frac{11}{9} + \frac{\square}{9} = \frac{22}{9} = 2\frac{\square}{9}$

j) $\frac{14}{7} + \frac{\square}{7} + \frac{4}{7} = 3$

e) $\frac{11}{9} + \frac{\square}{9} = \frac{\square}{9} = 2\frac{2}{9}$

k) $\frac{15}{7} + \frac{\square}{7} + \frac{5}{7} = 3$

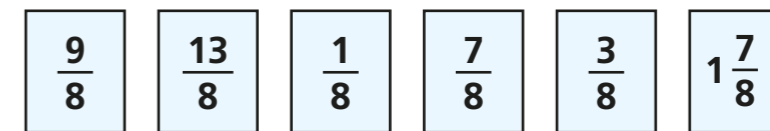
f) $\frac{22}{9} - \frac{\square}{9} = \frac{\square}{9} = 2\frac{2}{9}$

l) $\frac{16}{7} + \frac{\square}{7} + \frac{6}{7} = 4$

Compare answers with a partner. What do you notice?



6 Here are some fraction cards.



Use the cards to write pairs of fractions with a total of 2

+ = 2

+ = 2

+ = 2

7 Annie and Dexter both have a skipping rope.

Annie's rope is $\frac{3}{4}$ m shorter than Dexter's rope.

The ropes are $\frac{13}{4}$ m altogether.

How long is each skipping rope?

Annie's rope is m long.

Dexter's rope is m long.

