

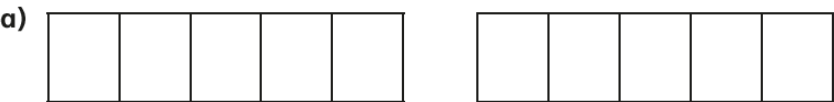
29.1.21

L.O. To add and subtract fractions

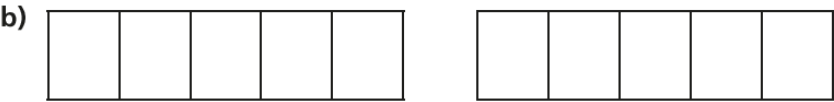
1.

Complete the calculations.

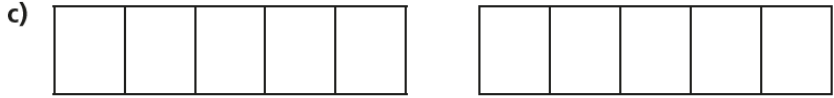
Use the bar models to help you.



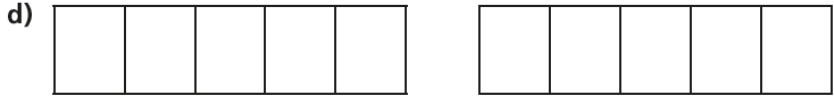
$\frac{4}{5} + \frac{3}{5} = \square = \square$



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



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



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

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.

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

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

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

4.

Fill in the missing numerators.

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

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

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

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

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

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

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

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

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

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

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

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

ADDING AND SUBTRACTING FRACTIONS CHALLENGES

1.

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

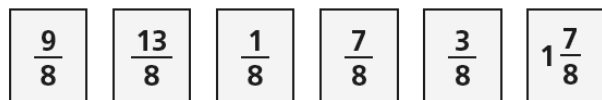
She pours out $\frac{9}{8}$ litres of juice.

How many litres of juice does she have left?

Dora has litres left.

2.

Here are some fraction cards.



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

$$\boxed{} + \boxed{} = 2$$

$$\boxed{} + \boxed{} = 2$$

$$\boxed{} + \boxed{} = 2$$

3.

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.