Add and subtract fractions with the same denominator



1 Complete the calculations.

Use the bar models to help you.

a)





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

b)





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

c)





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

d)





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

2 Complete the calculations.

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

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

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

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

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

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

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

e)
$$\frac{7}{9} + \frac{8}{9} = \boxed{}$$

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

3

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

What could the missing numerators be?

Give six different possibilities.

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

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

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

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

$$\frac{\Box}{Q} + \frac{\Box}{Q} = \frac{13}{2}$$

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



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?



Fill in the missing numerators.

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

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

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

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

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

i)
$$\frac{6}{7} + \frac{1}{7} + \frac{6}{7} = 2$$

d)
$$\frac{11}{9} + \frac{9}{9} = \frac{22}{9} = 2 \frac{9}{9}$$
 j) $\frac{14}{7} + \frac{4}{7} = 3$

j)
$$\frac{14}{7} + \frac{1}{7} + \frac{4}{7} = 1$$

e)
$$\frac{11}{9} + \frac{9}{9} = \frac{9}{9} = 2\frac{2}{9}$$
 k) $\frac{15}{7} + \frac{5}{7} = 3$

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

f)
$$\frac{22}{9} - \frac{9}{9} = \frac{9}{9} = 2\frac{2}{9}$$
 l) $\frac{16}{7} + \frac{6}{7} = 4$

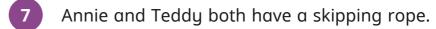
1)
$$\frac{16}{7} + \frac{\boxed{}}{7} + \frac{6}{7} = 4$$

Compare answers with a partner. What do you notice?



 $1\frac{7}{8}$

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



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

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

How long is each skipping rope?

Annie's rope is m long.

Teddy's rope is

m long.

