## Add and subtract fractions

(1) Complete the calculations.

Use the bar models to help you.

b)


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


(2) Complete the calculations.
a) $\frac{4}{7}+\frac{2}{7}=\square$
f) $\frac{17}{9}-\frac{8}{9}=\square=\square$
b) $\frac{4}{7}+\frac{3}{7}=\square=$ $\square$
g) $\frac{16}{9}-\frac{8}{9}=$
c) $\frac{4}{7}+\frac{4}{7}=\square=$ $\square$
h) $\frac{7}{9}+\frac{2}{9}+\frac{8}{9}=\square=$ $\square$
d) $\frac{8}{7}-\frac{3}{7}=$

i) $\frac{7}{15}+\frac{2}{15}+\frac{8}{15}=\square=\square$
e) $\frac{7}{9}+\frac{8}{9}=\square=$ $\square$
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 $\square$ litres left.

(5) Fill in the missing numerators.
a) $\frac{3}{8}+\frac{\square}{8}=\frac{13}{8}$
b) $\frac{13}{8}-\frac{\square}{8}=\frac{7}{8}$
c) $\frac{13}{8}-\frac{\square}{8}=1$
d) $\frac{11}{9}+\frac{\square}{9}=\frac{22}{9}=2 \frac{\square}{9}$
e) $\frac{11}{9}+\frac{\square}{9}=\frac{\square}{9}=2 \frac{2}{9}$
f) $\frac{22}{9}-\frac{\square}{9}=\frac{\square}{9}=2 \frac{2}{9}$
g) $\frac{4}{7}+\frac{\square}{7}+\frac{4}{7}=2$
h) $\frac{5}{7}+\frac{\square}{7}+\frac{5}{7}=2$
i) $\frac{6}{7}+\frac{\square}{7}+\frac{6}{7}=2$
i) $\frac{16}{7}+\frac{\square}{7}+\frac{6}{7}=4$
j) $\frac{14}{7}+\frac{\square}{7}+\frac{4}{7}=3$
k) $\frac{15}{7}+\frac{\square}{7}+\frac{5}{7}=3$

6 Here are some fraction cards.

| $\frac{9}{8}$ | $\frac{13}{8}$ | $\frac{1}{8}$ |
| :--- | :--- | :--- |$\frac{7}{8} \frac{7}{8}$

Use the cards to write pairs of fractions with a total of 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 $\frac{13}{4} \mathrm{~m}$ altogether.
How long is each skipping rope?

Annie's rope is $\square$ m long.
$\square$ m long.

