Add and subtract fractions from integers expressing the answer as a single fractionWhat is the same about the answers to the three calculations?


They are all equal to 1
(2) Use a bar model to explain why $\frac{3}{5}+\frac{2}{5}$ is equal to 1

## 

(4)

Work out the subtractions.
a) $1-\frac{1}{5}=\frac{4}{5}$
b) $1-\frac{2}{5}=\frac{3}{5}$
c) $1-\frac{3}{5}=\frac{2}{5}$
d) $1-\frac{4}{5}=\frac{1}{5}$
e) $1-\frac{7}{10}=\frac{3}{10}$
f) $1-\frac{9}{11}=\frac{2}{11}$
g) $\frac{9}{20}=1-\frac{11}{20}$
h) $1-\frac{7}{8}=\frac{1}{8}$

Compare answers with a partner.
Did you get the same answers? Discuss your methods.
xtions.

Use the bar models to work out the subtractions.
a) $1-\frac{1}{3}=\frac{2}{3}$

b) $1-\frac{2}{3}=\frac{1}{3}$

c) $1-\frac{3}{7}=\frac{4}{7}$

a) $1+\frac{2}{5}=1 \frac{2}{5}$
$2+\frac{2}{5}=2 \frac{2}{5}$
$3+\frac{2}{5}=3 \frac{2}{5}$
$7+\frac{2}{5}=7 \frac{2}{5}$
b) $15+\frac{1}{3}=15 \frac{1}{3}$
$15+\frac{2}{3}=15 \frac{2}{3}$
c) Is the statement true or false? true

$$
3+\frac{5}{4}=4 \frac{1}{4}
$$

Talk about it with a partner.

6 Write an addition and a subtraction for the models.
a)


$$
1+\frac{2}{3} \equiv 2-\frac{1}{3}
$$

b)

c)


$$
11+\frac{1}{4} \equiv 12-\frac{3}{4}
$$

(7)
a) Dora and Rosie are trying to work out $9-\frac{4}{11}$ What mistakes have they made?

Dora
Dora has calculated

$$
9-\frac{4}{11}=\frac{5}{11}
$$


b) How would you calculate $9-\frac{4}{11}$

Compare your method with a partner's.
(8) Work out the subtractions.
a) $3-\frac{2}{5}=2 \frac{3}{5}$
b) $8-\frac{2}{3}=7 \frac{1}{3}$
c) $10-\frac{3}{4}=9 \frac{1}{4}$
d) $7-\frac{10}{19}=6 \frac{9}{19}$
9) There are 6 episodes in a series.

Brett has watched $\frac{3}{4}$ of the first episode.
Exactly how many episodes does he need to watch to finish the series?
(10) Kim orders 3 pizzas. Each pizza is sliced into 8 slices.

$$
\frac{9}{9}-\frac{4}{10}
$$

Kim has 3 slices and Tom has 4
Exactly how much pizza is left?

