

Aim • Add and subtract fractions with the same denominator and denominators that are multiples of the same number.

Diving



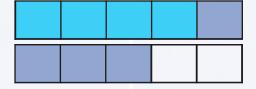
$$\frac{2}{6} + \frac{5}{6} =$$



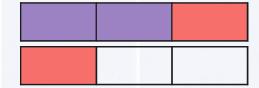
$$\frac{3}{4} + \frac{2}{4} =$$



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



$$\frac{2}{3} + \frac{2}{3} =$$



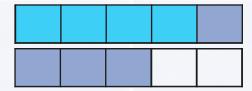
Diving



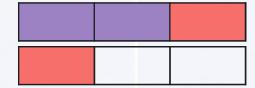
$$\frac{2}{6} + \frac{5}{6} = \frac{7}{6} = 1\frac{1}{6}$$

$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4} = 1\frac{1}{4}$$

$$\frac{4}{5} + \frac{4}{5} = \frac{8}{5} = 1\frac{3}{5}$$



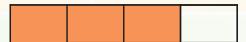
$$\frac{2}{3} + \frac{2}{3} = \frac{4}{3} = 1\frac{1}{3}$$



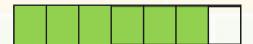
Diving



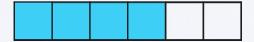
$$\frac{3}{4} - \frac{2}{4} =$$



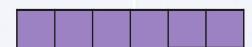
$$\frac{6}{7} - \frac{3}{7} =$$



$$\frac{4}{6} - \frac{3}{6} =$$



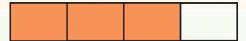
$$1 - \frac{2}{6} =$$



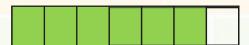
Diving



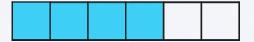
$$\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$$



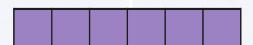
$$\frac{6}{7} - \frac{3}{7} = \frac{3}{7}$$



$$\frac{4}{6} - \frac{3}{6} = \frac{1}{6}$$



$$1 - \frac{2}{6} = \frac{4}{6}$$

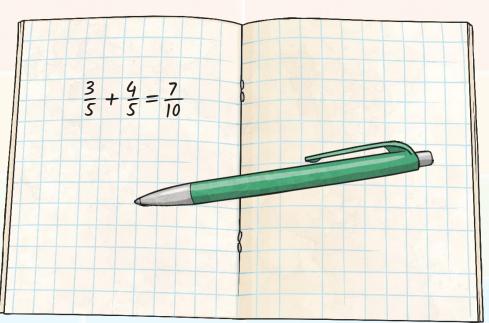


Deeper



Marcus is adding fractions. Here is what he has written:

Marcus is incorrect. Explain why.

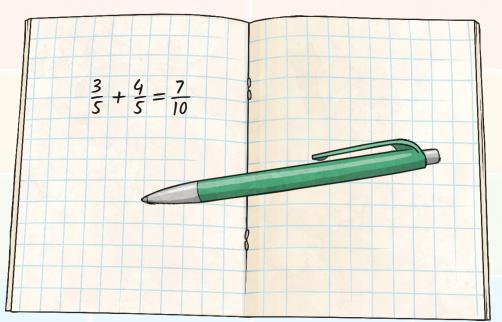


Deeper



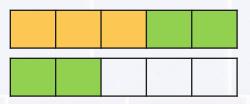
Marcus is adding fractions. Here is what he has written:

Marcus is incorrect. Explain why.



Marcus has added the denominators as well as the numerators.

When adding fractions, we only add the numerators. We can see from the bar model that $\frac{3}{5} + \frac{4}{5} = \frac{7}{5}$ (which is equivalent to $1\frac{2}{5}$).



Deepest



$$\frac{?}{6} + \frac{?}{6} > \frac{?}{6} + \frac{?}{6}$$

Find 3 ways to make this statement true

Each fraction in the statement must be different and each must be greater than 0 but less than 1.





$$\frac{?}{6} + \frac{?}{6} > \frac{?}{6} + \frac{?}{6}$$

Find 3 ways to make this statement true

Each fraction in the statement must be different and each must be greater than 0 but less than 1.

Possible solutions include the following:

$$\frac{5}{6} + \frac{4}{6} > \frac{2}{6} + \frac{3}{6}$$

$$\frac{3}{6} + \frac{4}{6} > \frac{2}{6} + \frac{1}{6}$$

$$\frac{5}{6} + \frac{4}{6} > \frac{2}{6} + \frac{3}{6}$$
 $\frac{3}{6} + \frac{4}{6} > \frac{2}{6} + \frac{1}{6}$ $\frac{5}{6} + \frac{2}{6} > \frac{1}{6} + \frac{3}{6}$



Dive in by completing your own activity!

