

Adding and Subtracting Fractions.
A Guided Approach
Sheet 1

Example 1.

$\frac{1}{2} + \frac{1}{8}$

$\times 4$

$\frac{4}{8} + \frac{1}{8}$

$\frac{5}{8}$

Try to explain in YOUR OWN WORDS why you can't do this sum.

Try to explain in YOUR OWN WORDS what has happened here so you can do the sum now.

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Sheet 2.

Example 2.

$$\begin{array}{r} \frac{7}{10} - \frac{3}{5} \\ \hline \end{array}$$

(X 2)

$$\begin{array}{r} \frac{7}{10} - \frac{6}{10} \\ \hline \end{array}$$

$$\frac{1}{10}$$

Try to explain in YOUR OWN WORDS why you can't do this sum.

Try to explain in YOUR OWN WORDS what has happened here so you can do the sum now.

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Question 1.

$$\begin{array}{c} \text{○} \\ \nearrow \\ \frac{3}{4} + \frac{1}{8} \\ \searrow \\ \frac{6}{8} + \frac{1}{8} \end{array}$$

What needs to go in here ?

Why ?

$$\frac{7}{8}$$

Question 2.

$$\begin{array}{c} \frac{8}{21} - \frac{2}{7} \\ \searrow \\ \frac{8}{21} - \frac{6}{21} \\ \nearrow \\ \text{○} \end{array}$$

What needs to go in here ?

Why ?

$$\frac{2}{21}$$

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Sheet 4.

Try to do these with less help.
Make notes to help yourself to understand.

Question 3.

$$\frac{2}{3} + \frac{5}{12}$$
$$\frac{8}{12} + \frac{5}{12}$$

$$\frac{\quad}{12}$$

Question 4.

$$\frac{13}{15} - \frac{2}{5}$$
$$\frac{13}{15} - \frac{4}{15}$$

$$\frac{\quad}{15}$$

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Sheet 5.

Try to do these with even less help.
Make notes to help yourself to understand.

Question 5.

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

$$\underline{\quad\quad} + \underline{\quad\quad}$$

$$\underline{\quad\quad}$$

Question 6.

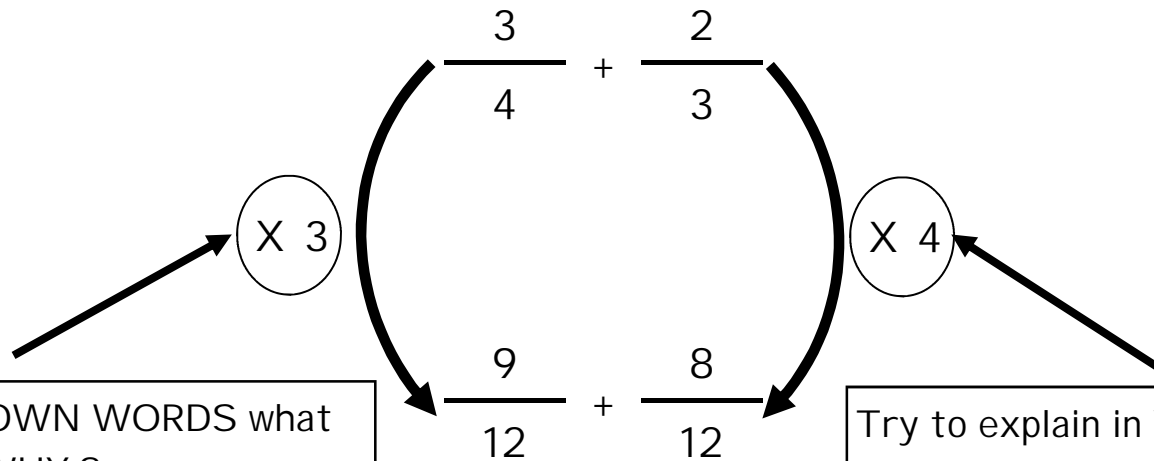
$$\frac{2}{3} - \frac{1}{6}$$

$$\underline{\quad\quad} - \underline{\quad\quad}$$

$$\underline{\quad\quad}$$

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Example 3.



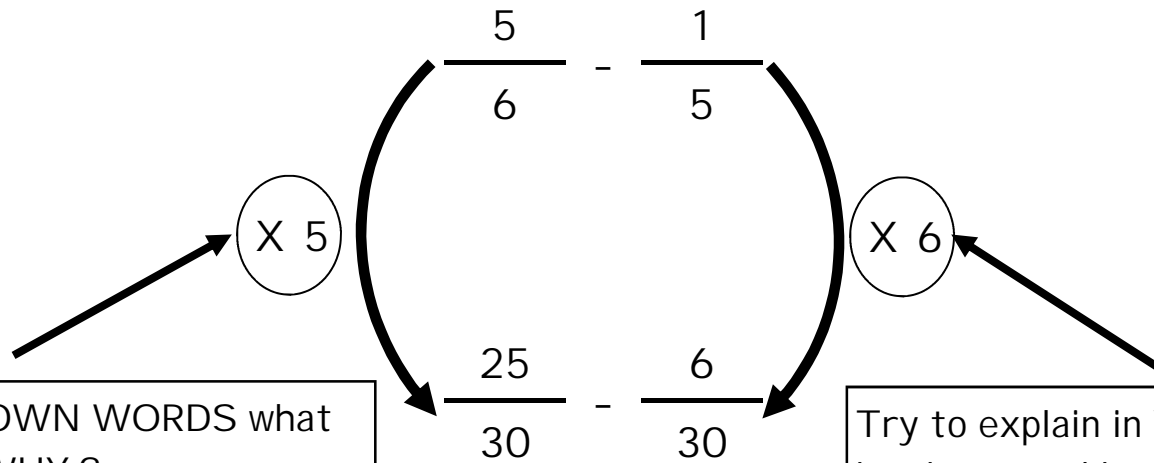
Try to explain in YOUR OWN WORDS what has happened here and WHY ?

Try to explain in YOUR OWN WORDS what has happened here and WHY ?

$$\frac{17}{12}$$

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Example 4.



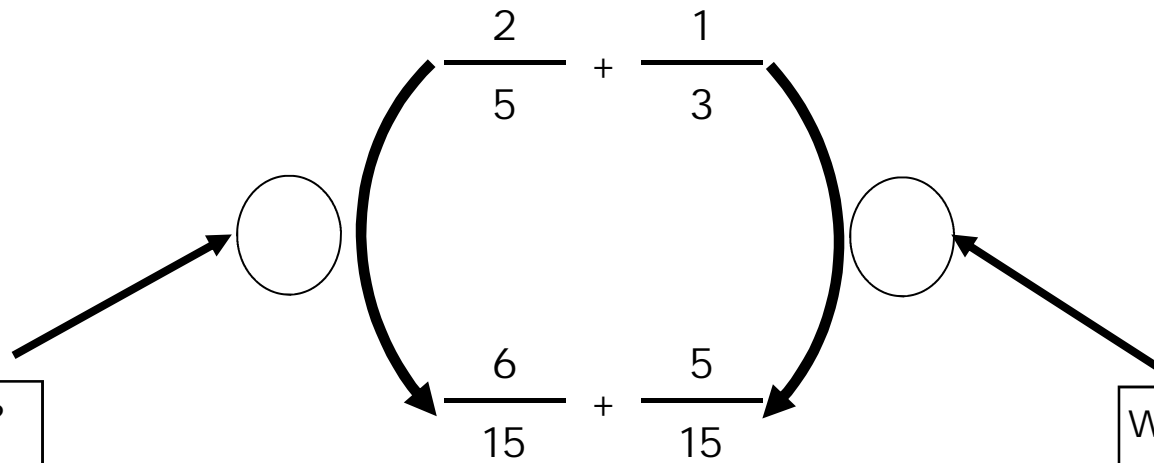
Try to explain in YOUR OWN WORDS what has happened here and WHY ?

Try to explain in YOUR OWN WORDS what has happened here and WHY ?

$$\frac{19}{30}$$

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Question 7.



What should go in here ?

Why ?

What should go in here ?

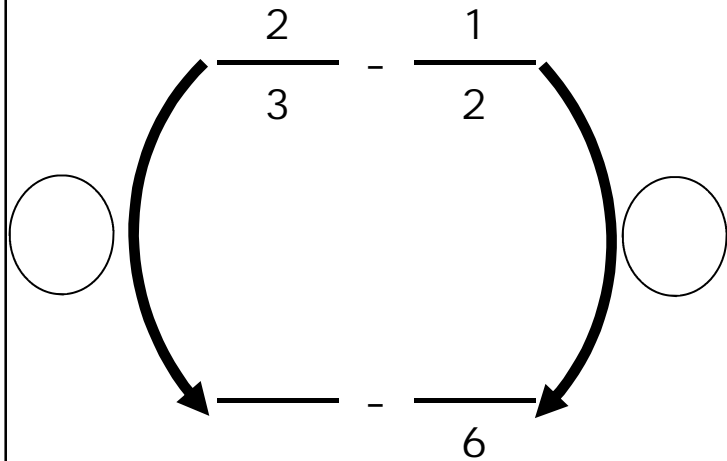
Why ?

$$\frac{11}{15}$$

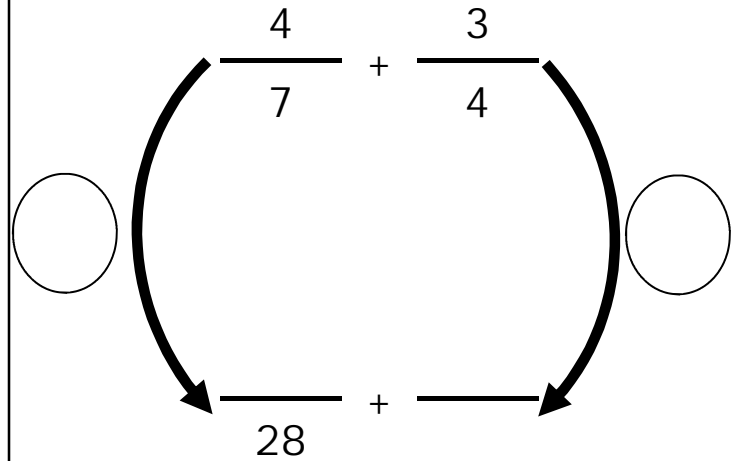
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Try to do these with less help.
Make notes to help yourself to understand.

Question 8.



Question 9.



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Sheet 10.

Try to do these with even less help.
Make notes to help yourself to understand.

Question 10.

$$\frac{5}{6} - \frac{1}{4}$$

$$\underline{\hspace{1cm}} - \underline{\hspace{1cm}}$$

$$\underline{\hspace{1cm}}$$

Question 11.

$$\frac{1}{7} + \frac{2}{3}$$

$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}}$$

$$\underline{\hspace{1cm}}$$