



THIRD SPACE
LEARNING



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

HELLO!

Today we are going to learn to
add and subtract all kinds of fractions



Warm up for adding and subtracting all kinds of fractions



Write these questions so the fractions have the same denominator.
Then write the answer.

1. $\frac{1}{3} - \frac{1}{9} = \frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$

2. $\frac{3}{8} + \frac{1}{4} = \frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$

3. $\frac{9}{10} + \frac{1}{5} = \frac{\square}{\square} + \frac{\square}{\square} = \square$

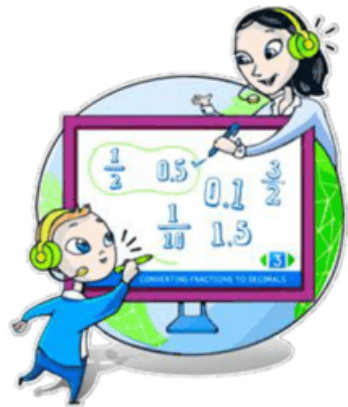
4. $1\frac{3}{8} - \frac{1}{4} = \frac{\square}{\square} - \frac{\square}{\square} = \square$

5. Find a common multiple of: a) 3 and 4 b) 4 and 6



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Add and subtract all kinds of fractions



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In this session, we are going to learn:



to add fractions with different denominators



to subtract fractions with different denominators



to add mixed numbers



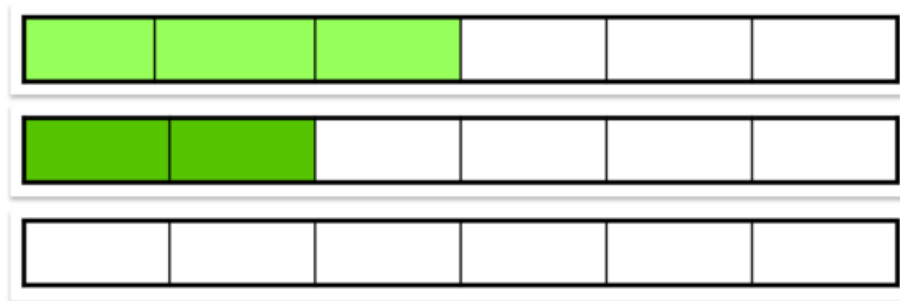
to subtract mixed numbers

You are learning to add and subtract all kinds of fractions

Adding fractions with different denominators

Use the diagram to help you find the answer.

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



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

Adding fractions with different denominators



Rewrite each addition using equivalent fractions so both fractions have the same denominator. Then find the answer.

1.

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

2.

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

3.

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

4.

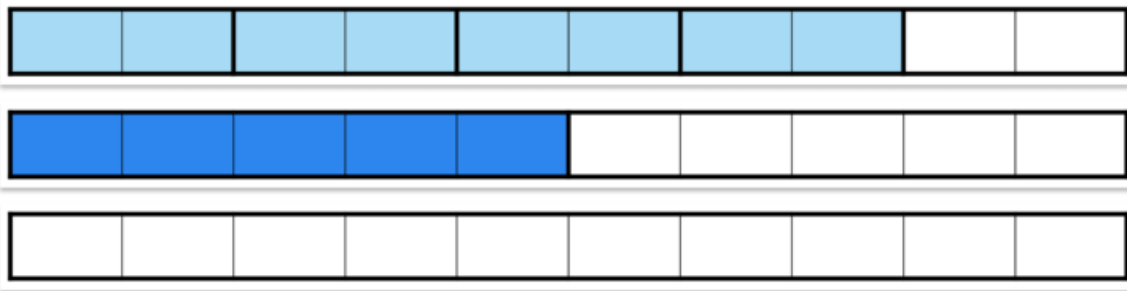
$$\frac{1}{4} + \frac{1}{6} = \frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$

Check each of your answers is sensible.

Subtracting fractions with different denominators

Use the diagram to help you find the answer.

$$\frac{4}{5} - \frac{1}{2}$$



$$\frac{4}{5} - \frac{1}{2} = \frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

Subtracting fractions with different denominators



Rewrite each subtraction using equivalent fractions so both fractions have the same denominator. Then find the answer.

1.

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

2.

$$\frac{2}{5} - \frac{1}{4} = \frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

3.

$$\frac{5}{6} - \frac{2}{9} = \frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

4.

$$\frac{6}{7} - \frac{1}{2} = \frac{\boxed{}}{\boxed{}} - \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

Check each of your answers is sensible.

Adding mixed numbers



Show your working and find the answers.

Check each answer is sensible.

1.

$$6\frac{1}{3} + 2\frac{1}{3} =$$

2.

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

3.

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

4.

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

Subtracting mixed numbers

Use the diagram to help you find the answer.

$$4\frac{2}{5} - 1\frac{1}{2}$$



Write your method and your answer here:

$$4\frac{2}{5} - 1\frac{1}{2} = \boxed{\quad - \quad}$$

Subtracting mixed numbers



Show your working and find the answers.

Check each answer is sensible.

1.

$$10\frac{2}{7} - 5\frac{1}{7} =$$

2.

$$6\frac{2}{5} - 3\frac{1}{4} =$$

3.

$$1\frac{1}{6} - \frac{5}{9} =$$

4.

$$168\frac{3}{7} - 167\frac{1}{2} =$$

Practice time



Find the answers. Show your working below the questions and check each of your answers is sensible.

1.

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

2.

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

3.

$$\frac{7}{8} - \frac{2}{5} =$$

4.

$$16\frac{1}{8} - 1\frac{1}{4} =$$

Practice time

5. John walks $8\frac{1}{2}$ miles. He takes a break for lunch and then walks another $10\frac{2}{3}$ miles. How far does he walk altogether?
6. Write an addition and a subtraction with the answer $6\frac{1}{2}$.
Make them as hard as you can.



Add and subtract all kinds of fractions

Which type of question did you like doing most today?



You are learning to add and subtract all kinds of fractions