



1. Let's practice adding and subtracting fractions with unlike denominators. Look at this problem.

$$\frac{1}{6} + \frac{3}{7} =$$

You can only add fractions that have the same denominator. To get a common denominator first, you have to rename the fractions.

To find the least common denominator, look at the two denominators: 6 and 7. Find the least common multiple of 6 and 7.

The least common multiple is 42.

2. You rename the fractions to get a common denominator of 42.

$$\frac{1}{6} \times \frac{7}{7} = \frac{7}{42} \qquad \frac{3}{7} \times \frac{6}{6} = \frac{18}{42}$$

$$\frac{7}{42} + \frac{18}{42} =$$

Now the fractions have a common denominator!

3. Now you can add the fractions. To add the fractions, add the numerators and keep the denominators.

$$\frac{7}{42} + \frac{18}{42} = \frac{25}{42} \text{ (add the numerators)}$$

$$\frac{7}{42} + \frac{18}{42} = \frac{25}{42} \text{ (keep the same denominator)}$$

4.

$\frac{25}{42}$ is in lowest terms, so you're done.

The answer is $\frac{25}{42}$!

5. Look at this problem.

$$\frac{21}{25} - \frac{1}{5} =$$

You can only subtract fractions that have the same denominators.

First you have to rename the fractions to get a common denominator.

To find the least common denominator, look at the two denominators: 25 and 5. Find the least common multiple of 25 and 5.

The least common multiple is 25!

6. Now rename the fractions to get a common denominator of 25.

$\frac{21}{25}$ already has a denominator of 25,
so you don't have to rename it.

$$\frac{1}{5} \times \frac{5}{5} = \frac{5}{25} \qquad \frac{21}{25} - \frac{5}{25}$$

Now the fractions have a common denominator!

7. Now you can subtract. To subtract the fractions, subtract the numerators and keep the denominators.

$$\frac{21}{25} - \frac{5}{25} = \frac{16}{25} \quad (\text{subtract the numerators})$$

$$\frac{21}{25} - \frac{5}{25} = \frac{16}{25} \quad (\text{keep the denominator})$$

8.

$\frac{16}{25}$ is in the lowest terms, so you're done.

The answer is $\frac{16}{25}$!



Now, try to work through the next problems step by step.

1. Look at this problem. To add these fractions, you have to rename the fractions to get a least common denominator.

$$\frac{5}{11} + \frac{1}{3} =$$

What is the least common denominator?

- A 11
 B 33

2.

$$\frac{5}{11} + \frac{1}{3} =$$

A)

$$\frac{5}{33}, \frac{1}{33}$$

B)

$$\frac{15}{33}, \frac{11}{33}$$

If you rename the fractions to get a denominator of 33, what will the new fractions be?

- A
 B

3. What is the answer to this problem?

$$\frac{15}{33} + \frac{11}{33} =$$

- A $\frac{26}{66}$
 B $\frac{26}{33}$

4. Look at this problem.

$$\frac{17}{30} - \frac{5}{15} =$$

To subtract these fractions, you have to rename them to get a common denominator.

What is the least common denominator?

- A 30
- B 40

5. If you rename the fractions to get a denominator of 30, what will the new fractions be?

$$\frac{17}{30} - \frac{5}{15} =$$

A)

$$\frac{17}{30}, \frac{10}{30}$$

B)

$$\frac{17}{30}, \frac{5}{30}$$

- A
- B



6. What is the answer?

$$\frac{17}{30} - \frac{10}{30} =$$

- A $\frac{7}{30}$
- B $\frac{7}{0}$



Now, work these practice problems on your own.



1. Solve the problem below.

$$\frac{11}{20} + \frac{3}{10} =$$

- A $\frac{17}{20}$
- B $\frac{8}{10}$
- C $\frac{13}{30}$
- D $\frac{5}{20}$

2. Solve the problem below.

$$\frac{9}{16} - \frac{1}{2} =$$

- A $\frac{17}{16}$
- B $\frac{1}{16}$
- C $\frac{8}{14}$
- D $\frac{10}{18}$

3. Solve the problem below.

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

- A $\frac{17}{30}$
- B $\frac{7}{15}$
- C $\frac{5}{8}$
- D $\frac{3}{2}$

4. Solve the problem below.

$$\frac{3}{8} + \frac{3}{9} =$$

- A $\frac{6}{17}$
- B $\frac{51}{72}$
- C $\frac{3}{72}$
- D $\frac{0}{1}$

5. Solve the problem below.

$$\frac{5}{10} - \frac{2}{15} =$$

- A $\frac{3}{5}$
- B $\frac{11}{30}$
- C $\frac{19}{30}$
- D $\frac{7}{25}$

6. Solve the problem below.

$$\frac{6}{15} + \frac{1}{3} =$$

- A $\frac{7}{18}$
- B $\frac{11}{15}$
- C $\frac{5}{12}$
- D $\frac{1}{15}$

7 Solve the problem below.

$$\frac{4}{9} + \frac{1}{2} =$$

- A $\frac{3}{7}$
- B $\frac{17}{18}$
- C $\frac{5}{11}$
- D $\frac{1}{18}$

8 Solve the problem below.

$$\frac{20}{24} - \frac{3}{8} =$$

- A $\frac{29}{24}$
- B $\frac{17}{16}$
- C $\frac{11}{24}$
- D $\frac{23}{32}$

? Solve the problem below.

$$\frac{4}{5} - \frac{2}{7} =$$

- A $\frac{38}{35}$
- B $\frac{6}{12}$
- C $\frac{18}{35}$
- D $\frac{2}{2}$

/o Solve the problem below.

$$\frac{7}{10} + \frac{1}{4} =$$

- A $\frac{8}{14}$
- B $\frac{9}{20}$
- C $\frac{19}{20}$
- D $\frac{6}{6}$

// Solve the problem below.

$$\frac{14}{36} + \frac{3}{12} =$$

- A $\frac{11}{24}$
- B $\frac{5}{36}$
- C $\frac{23}{36}$
- D $\frac{17}{48}$

12. Solve the problem below.

$$\frac{19}{30} - \frac{1}{5} =$$

- A $\frac{18}{25}$
- B $\frac{20}{35}$
- C $\frac{13}{30}$
- D $\frac{25}{30}$