

Guided worksheet on adding fractions and mixed numbers

Learn how [to add fractions and mixed numbers](#) when they have the different denominators. It is highly recommended for students to fill in all the blanks in each problem given below: *(Remember, lcd is the key for such problems)*

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

The first step is to change both the denominators to a common denominator

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

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

$$= 2\frac{\square}{6}$$

Once the denominators are same, add the numerators to get the numerator for the answering fraction as shown.

2) $\frac{2}{3} + 1\frac{2}{9}$

LCD for 3 and 9 is 9.

$$= \frac{2 \times \square}{3 \times \square} + 1\frac{\square}{9}$$

$$= \frac{6}{\square} + 1\frac{2}{9} = 1\frac{\square}{\square}$$

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

LCD of 4 and 6 is 12.

$$= \frac{2 \times 3}{4 \times \square} + 5\frac{\square \times \square}{6 \times \square}$$

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

4) $3\frac{2}{3} + \frac{3}{5}$

LCD for 3 and 5 is 15

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

$$= 3\frac{10}{\square} + \frac{9}{15} = 3\frac{19}{15} = 4\frac{4}{15}$$

5) $6\frac{5}{12} + \frac{3}{16}$

Least common denominator (lcd) for 12 and 16 = 48.

$$= 6\frac{\square \times 4}{12 \times 4} + \frac{\square \times \square}{\square \times 3}$$

$$= 6\frac{\square}{48} + \frac{9}{\square} = 6\frac{\square}{48}$$

6) $\frac{7}{12} + 3\frac{3}{8}$

Lcd for 12 & 8 = 24

$$= \frac{\square \times 2}{12 \times 2} + 3\frac{\square \times \square}{\square \times 3}$$

$$= \frac{14}{\square} + 3\frac{9}{\square} = \square\frac{\square}{24}$$