Adding fractions with mixed numbers

a.

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

Lcd 5 and 8 = 40

$$= \frac{3x8}{5x8} + 3\frac{3x5}{8x5}$$

$$= \frac{24}{40} + 3\frac{15}{40}$$

Now, the first fraction has no whole number at front so we get 3 as whole number for the answer. Add numerators to get the new numerator.

$$= 3\frac{39}{40}$$

b.

$$7\frac{2}{3} + \frac{3}{12}$$

Lcd=12

$$= 7\frac{2x4}{3x4} + \frac{3}{12}$$

$$= 7\frac{8}{12} + \frac{3}{12} = 7\frac{11}{12}$$

c.

$$2\frac{4}{9} + 4\frac{5}{12}$$

lcd* of 9 & 12 is *36

$$= 2\frac{4x4}{9x4} + 4\frac{5x3}{12x3}$$

$$= 2\frac{16}{36} + 4\frac{15}{36}$$

2 + 4

$$= 6\frac{31}{36}$$

Add both whole numbers to get new whole number.

d.

$$5\frac{7}{24} + 3\frac{5}{6}$$

lcd* of 24 & 6 is *24

$$= 5\frac{7}{24} + 3\frac{5x4}{6x4}$$

$$= 5\frac{7}{24} + 3\frac{20}{24}$$

$$= 8\frac{27}{24}^{9}_{8}$$

But 27 and 24 both can be divided by 3, (gcf of 27 & 24) to get 9 and 8 respectively.

$$= 8\frac{9}{8} = 9\frac{1}{8}$$

As $\frac{9}{8} = 1\frac{1}{8}$

Now add 1 *(which we got from 9/8)* to 8, already at front to get 9 *(new whole number at the front).*