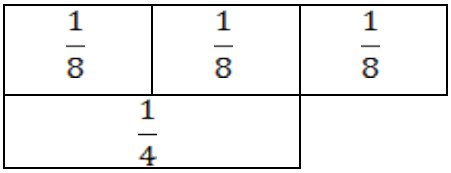
Method 1 — Fraction Tiles: $\frac{}{4} + \frac{}{3}$

We are going use our fraction tiles.

Find your $\frac{1}{4}$

You try: $- + -$



$$\frac{3}{8}+\frac{1}{4}$$
$$=\frac{3}{8}+\frac{2}{8}$$
$$=\frac{3+2}{8}$$
$$=\frac{5}{8}$$

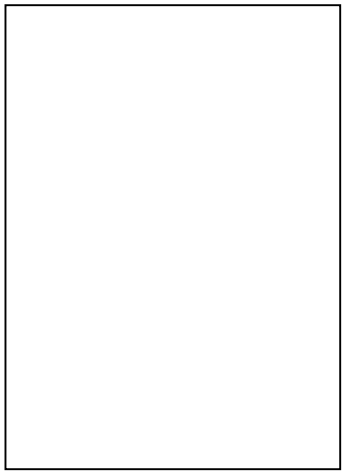
$$\therefore \frac{3}{8}+\frac{1}{4}=\frac{5}{8}$$

Method 2: **Common Denominators**

Let's do it another way. We will use the first problem: $x = \frac{1}{4}+\frac{1}{3}$.

We can find a **common denominator.**

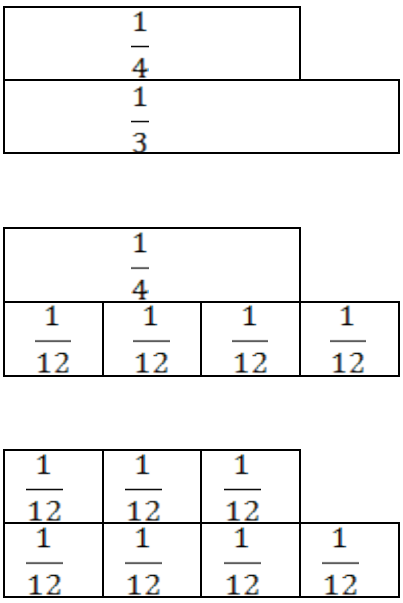
What is the LCM of 4 and 3? [12]



Side-by-side Class Chart of Example & You Try:

Example: $x = \_ + \_$

Fraction Tiles:



$\therefore \frac{1}{4} + \frac{1}{3} = \frac{7}{12}$

Common Denominators:

$x \quad \frac{1}{4} \quad \frac{1}{3}$

$x \quad \frac{1}{4}\cdot\frac{3}{3} \quad \frac{1}{3}\cdot\frac{4}{4}$

$x \quad \frac{3}{12} \quad \frac{4}{12}$

$x \quad \frac{3 \quad 4}{12}$

$x \quad \frac{7}{12}$

Clearing Denominators:

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

$$12(x) = 12\left(\frac{1}{4}\right) + 12\left(\frac{1}{3}\right)$$

$$\frac{12}{1}(x) = \frac{12}{1}\left(\frac{1}{4}\right) + \frac{12}{1}\left(\frac{1}{3}\right)$$

$$12x = \frac{12 \cdot 1}{1 \cdot 4} + \frac{12 \cdot 1}{1 \cdot 3}$$

$$12x = \frac{12}{4} + \frac{12}{3}$$

$$12x = 3 + 4$$

$$12x = 7$$

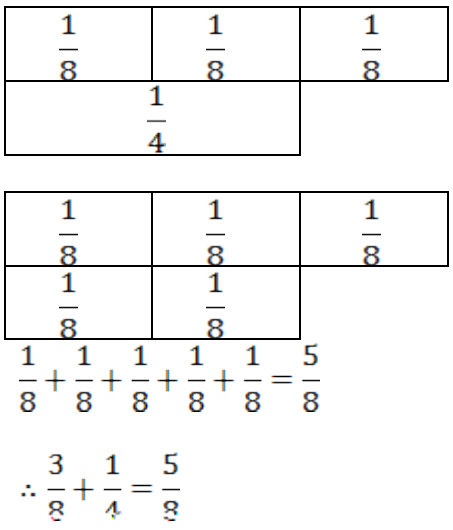
$$\frac{12x}{12!!} = \frac{7}{12}$$

$$x = \frac{7}{12}$$

You Try: $x \quad \_ \quad \_$

Fraction Tiles:

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



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

$\therefore \frac{3}{8} + \frac{1}{4} = \frac{5}{8}$

Common Denominators:

$x = \frac{3}{8}$

Clearing Denominators: