# Compare fractions with like and unlike denominator

Name: .................................................................  Class: ...............................

## Complete with >, < or = .

$\dfrac{5}{8}$ ☐ $\dfrac{10}{8}$     $\dfrac{10}{16}$ ☐ $\dfrac{5}{16}$     $\dfrac{24}{30}$ ☐ $\dfrac{29}{30}$

$\dfrac{1}{3}$ — $\dfrac{1}{3}$     $\dfrac{3}{2}$ ☐ $\dfrac{7}{2}$     $\dfrac{2}{2}$ ☐ $\dfrac{1}{2}$

$\dfrac{30}{40}$ ☐ $\dfrac{13}{40}$     $\dfrac{13}{20}$ ☐ $\dfrac{13}{20}$     $\dfrac{47}{15}$ ☐ $\dfrac{61}{15}$

### Example :

a. $\dfrac{5}{8}$ ☐ $\dfrac{7}{4}$

**step 1**
Multiple of 8: ⑧ 16, 24...
Multiple of 4: 4, ⑧ 12, 16, 20, 24...
The LCD of 8 and 4 = 8

**step 2**
Write the equivalent for 2/9 and 7/5 that have a denominator of 8. Find the digit that when you multiply each fraction with will give you 8 as denominator.

**step 3**
$\dfrac{5 \times 1}{8 \times 1} = \dfrac{5}{8}$

$\dfrac{7 \times 2}{4 \times 2} = \dfrac{14}{8}$

**step 4**
$\dfrac{5}{8}$ < $\dfrac{14}{8}$  →  $\dfrac{5}{8}$ < $\dfrac{7}{4}$

b. $\dfrac{2}{9}$ ☐ $\dfrac{7}{5}$     e. $\dfrac{9}{7}$ ☐ $\dfrac{4}{5}$     h. $\dfrac{2}{6}$ ☐ $\dfrac{1}{3}$

c. $\dfrac{5}{3}$ ☐ $\dfrac{3}{2}$     f. $\dfrac{13}{7}$ ☐ $\dfrac{4}{7}$     i. $\dfrac{6}{18}$ ☐ $\dfrac{12}{18}$

d. $\dfrac{3}{5}$ ☐ $\dfrac{9}{5}$     g. $\dfrac{13}{5}$ ☐ $\dfrac{11}{6}$     j. $\dfrac{6}{9}$ ☐ $\dfrac{2}{3}$

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$\dfrac{5}{8}$ < $\dfrac{10}{8}$   $\dfrac{10}{16}$ > $\dfrac{5}{16}$   $\dfrac{24}{30}$ < $\dfrac{29}{30}$

$\dfrac{1}{3}$ = $\dfrac{1}{3}$   $\dfrac{3}{2}$ < $\dfrac{7}{2}$   $\dfrac{2}{2}$ > $\dfrac{1}{2}$

$\dfrac{30}{40}$ > $\dfrac{13}{40}$   $\dfrac{13}{20}$ = $\dfrac{13}{20}$   $\dfrac{47}{15}$ < $\dfrac{61}{15}$

### Example :

**a.** $\dfrac{5}{8}$ ☐ $\dfrac{7}{4}$

**step 1**
Multiples of 8: 8, 16, 24...
Multiples of 4: 4, 8, 12, 16, 20, 24...
The LCD of 8 and 4 = 8

**step 2**
Write the equivalent fractions for 5/8 and 7/4 that have a denominator of 8. Find the digit that when you multiply each fraction with will give you 8 as denominator.

**step 3**
$\dfrac{5 \times 1}{8 \times 1} = \dfrac{5}{8}$

$\dfrac{7 \times 2}{4 \times 2} = \dfrac{14}{8}$

**step 4**
$\dfrac{5}{8}$ < $\dfrac{14}{8}$ → $\dfrac{5}{8}$ < $\dfrac{7}{4}$

**b.** $\dfrac{2}{9}$ < $\dfrac{7}{5}$   **e.** $\dfrac{9}{7}$ > $\dfrac{4}{5}$   **h.** $\dfrac{2}{6}$ = $\dfrac{1}{3}$

**c.** $\dfrac{5}{3}$ > $\dfrac{3}{2}$   **f.** $\dfrac{13}{7}$ > $\dfrac{4}{7}$   **i.** $\dfrac{6}{18}$ < $\dfrac{12}{18}$

**d.** $\dfrac{3}{5}$ < $\dfrac{9}{5}$   **g.** $\dfrac{13}{5}$ > $\dfrac{11}{6}$   **j.** $\dfrac{6}{9}$ = $\dfrac{2}{3}$