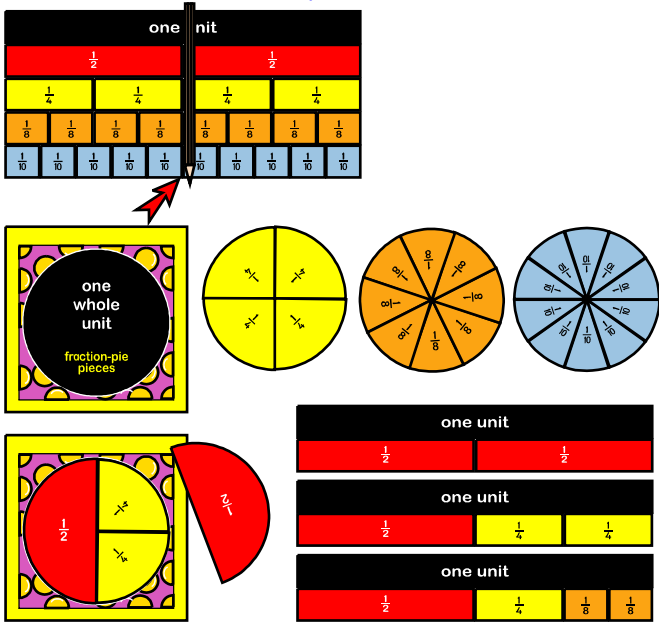


1 The unit and its parts. (3rd class)



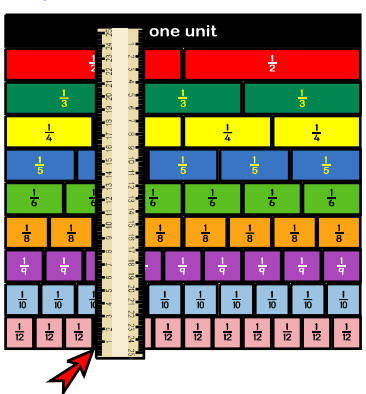
Note 1: Third class is limited to *halves, quarters, eighths and tenths.*

- ✓ WALL: Before you cut the wall into pieces use a straight line to find
 - (i) the equivalent fractions.
 - (ii) how many **quarters, eighths and tenths** are just more than **half**.
 - (iii) how many are just less than **half**.

- ✓ PIE: Make units with *quarters, eighths and tenths.*
- ✓ PIE: Put $\frac{1}{2}$ on the pie unit and fill the remaining half in 5 different ways. WALL: Demonstrate your solutions on the wall. Record your solutions.

e.g. (i) $1 = \frac{1}{2} + \frac{1}{2}$ (ii) $1 = \frac{1}{2} + \frac{1}{4} + \frac{1}{4}$
 (iii) $1 = \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{8}$

2 Equivalence (4th class)



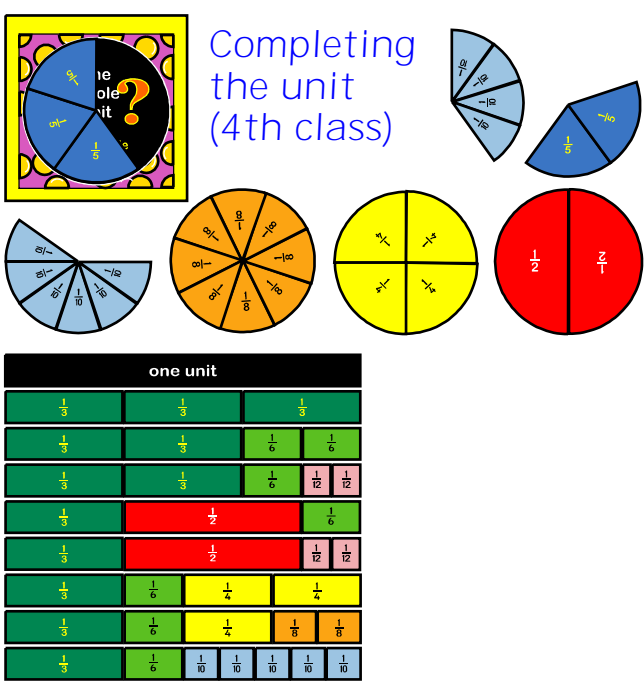
Note 2: *fifths, sixths, ninths and twelfths* are introduced in 4th.

- ✓ WALL: Arrange the fraction wall in numeric order. Use a straight line to find out which fractions are equivalent. Record your findings.

e.g. (i) $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12}$ (ii) $\frac{1}{4} = \frac{2}{8} = \frac{3}{12}$

Find and record patterns:
 e.g. (i) $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$ (ii) $\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12}$

3 Completing the unit (4th class)



- ✓ PIE: Place *one fifth* on the pie unit. How many tenths will cover the rest of the pie unit? Place $\frac{2}{5}$. How many tenths will cover the rest of the unit now? Continue the pattern. Place *one quarter*. How many eighths? Place *one tenth*. How many fifths?

- ✓ WALL: Put $\frac{1}{3}$ against the unit. Find out how many ways you can complete the unit using any combination of fraction pieces. Record your solutions.

e.g. (i) $1 = \frac{1}{3} + \frac{2}{3}$ (ii) $1 = \frac{1}{3} + \frac{1}{3} + \frac{2}{3}$
 (iii) $1 = \frac{1}{3} + \frac{1}{3} + \frac{1}{6} + \frac{2}{6}$ (iv) $1 = \frac{1}{3} + \frac{1}{2} + \frac{1}{6}$

Start with *one fifth, one sixth etc.* Record your solutions.