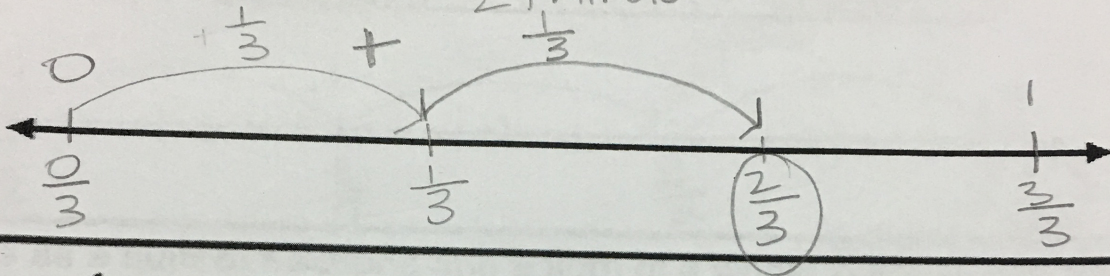# Equivalent Fractions

Number Lines, Area Models, & Equations
M3 L2

Show each expression on a number line.
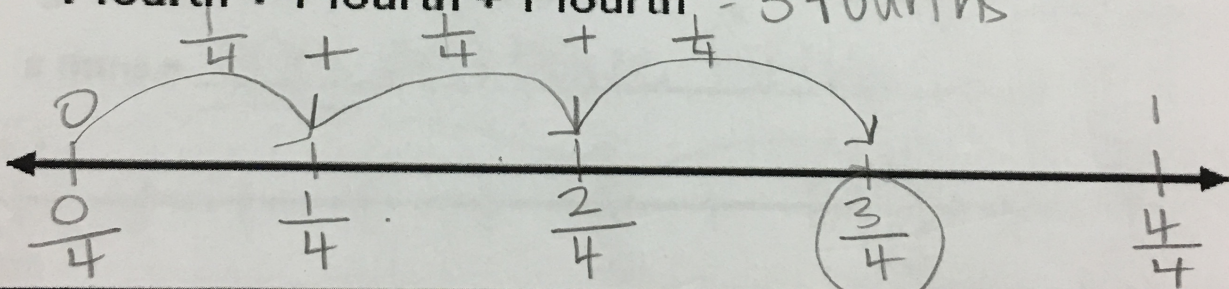
1. $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ (same as $2 \times \frac{1}{3}$)
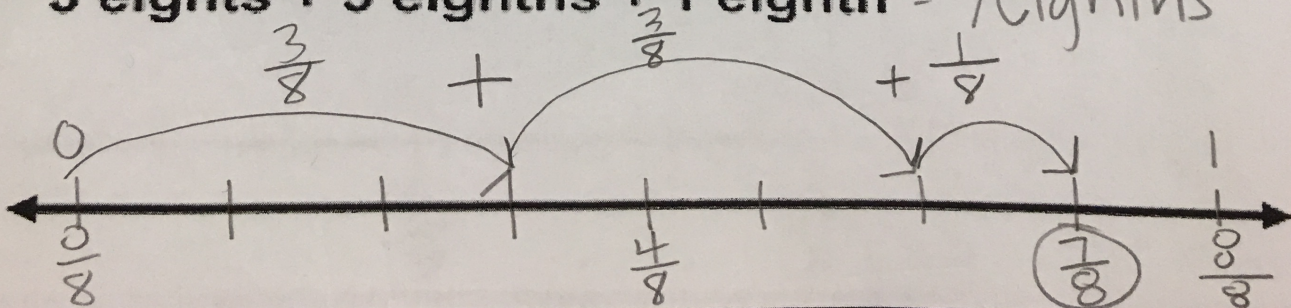
1 third + 1 third = 2 thirds

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

$\frac{0}{3}$ $\frac{1}{3}$ $\frac{2}{3}$ $\frac{3}{3}$

2. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$ (same as $3 \times \frac{1}{4}$)

1 fourth + 1 fourth + 1 fourth = 3 fourths

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

$\frac{0}{4}$ $\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$ $\frac{4}{4}$

3. $\frac{3}{8} + \frac{3}{8} + \frac{1}{8} = \frac{7}{8}$ same as : $\left(2 \times \frac{3}{8}\right) + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$

3 eights + 3 eighths + 1 eighth = 7 eighths

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

$\frac{0}{8}$ $\frac{4}{8}$ $\frac{7}{8}$ $\frac{8}{8}$
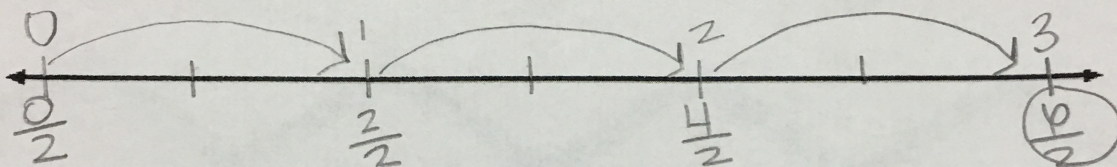
Equivalent Fractions

Sum of Like Units (with Number Lines)

M3 L2

Express as addition of equal fractions and as a multiplication equation.
Translate into words.
Express the sum on the number line.

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

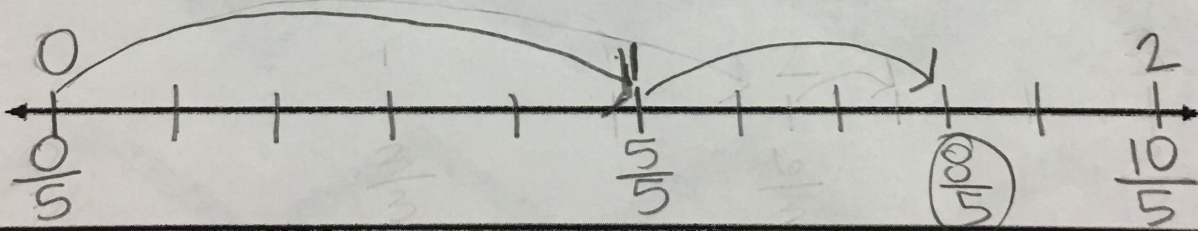6 halves = __2 halves + 2 halves + 2 halves = 3__

Express as a sum of fractions and a sum of a whole number and fraction.
Translate into words.
Express the sum on the number line.

5. $\frac{8}{5} = \frac{5}{5} + \frac{3}{5} = \underline{\frac{8}{5}}$ $\frac{8}{5} = 1 + \frac{3}{5} = \underline{1\frac{3}{5}}$

8 fifths = __one and three-fifths__

6. $\frac{7}{3} = \frac{6}{3} + \frac{1}{3} = \underline{\frac{7}{3}}$ $\frac{7}{3} = 2 + \frac{1}{3} = \underline{2\frac{1}{3}}$

7 thirds = __two and one third__