

## Lesson 5

### Problem Set

- $8, \frac{1}{8}, \frac{2}{8}, \frac{1}{8}, \frac{2}{8}$
  - 2 rows drawn;  $\frac{1}{5} = \frac{2}{10}, \frac{1}{5} = \frac{1}{10} + \frac{1}{10} = \frac{2}{10}, \frac{1}{5} = 2 \times \frac{1}{10} = \frac{2}{10}$
  - 4 rows drawn;  $\frac{1}{3} = \frac{4}{12}, \frac{1}{3} = \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} = \frac{4}{12}, \frac{1}{3} = 4 \times \frac{1}{12} = \frac{4}{12}$
- Area model shows  $\frac{1}{2} = \frac{3}{6}; \frac{1}{2} = \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{3}{6}, \frac{1}{2} = 3 \times \frac{1}{6} = \frac{3}{6}$
  - Area model shows  $\frac{1}{2} = \frac{4}{8}; \frac{1}{2} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{4}{8}, \frac{1}{2} = 4 \times \frac{1}{8} = \frac{4}{8}$
  - Area model shows  $\frac{1}{2} = \frac{5}{10}; \frac{1}{2} = \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} = \frac{5}{10}, \frac{1}{2} = 5 \times \frac{1}{10} = \frac{5}{10}$
  - Area model shows  $\frac{1}{3} = \frac{2}{6}; \frac{1}{3} = \frac{1}{6} + \frac{1}{6} = \frac{2}{6}, \frac{1}{3} = 2 \times \frac{1}{6} = \frac{2}{6}$
  - Area model shows  $\frac{1}{3} = \frac{4}{12}; \frac{1}{3} = \frac{1}{12} + \frac{1}{12} + \frac{1}{12} = \frac{4}{12}, \frac{1}{3} = 4 \times \frac{1}{12} = \frac{4}{12}$
  - Area model shows  $\frac{1}{4} = \frac{3}{12}; \frac{1}{4} = \frac{1}{12} + \frac{1}{12} + \frac{1}{12} = \frac{3}{12}, \frac{1}{4} = 3 \times \frac{1}{12} = \frac{3}{12}$
- Explanations will vary.

### Exit Ticket

- 2 rows drawn;  $\frac{1}{4} = \frac{1}{8} + \frac{1}{8} = \frac{2}{8}, \frac{1}{4} = 2 \times \frac{1}{8} = \frac{2}{8}$
  - 3 rows drawn;  $\frac{1}{4} = \frac{1}{12} + \frac{1}{12} + \frac{1}{12} = \frac{3}{12}, \frac{1}{4} = 3 \times \frac{1}{12} = \frac{3}{12}$
- Area model shows  $\frac{3}{5} = \frac{6}{10}; \frac{3}{5} = \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} = \frac{6}{10}, \frac{3}{5} = 6 \times \frac{1}{10} = \frac{6}{10}$

## Homework

1.
  - a.  $6, \frac{1}{6}, \frac{1}{6}, \frac{1}{6}$
  - b. 2 rows drawn;  $\frac{1}{4} = \frac{2}{8}, \frac{1}{4} = \frac{1}{8} + \frac{1}{8} = \frac{2}{8}, \frac{1}{4} = 2 \times \frac{1}{8} = \frac{2}{8}$
  - c. 4 rows drawn;  $\frac{1}{4} = \frac{4}{16}, \frac{1}{4} = \frac{1}{16} + \frac{1}{16} + \frac{1}{16} + \frac{1}{16} = \frac{4}{16}, \frac{1}{4} = 4 \times \frac{1}{16} = \frac{4}{16}$
2.
  - a. Area model shows  $\frac{1}{3} = \frac{2}{6}; \frac{1}{3} = \frac{1}{6} + \frac{1}{6} = \frac{2}{6}, \frac{1}{3} = 2 \times \frac{1}{6} = \frac{2}{6}$
  - b. Area model shows  $\frac{1}{3} = \frac{3}{9}; \frac{1}{3} = \frac{1}{9} + \frac{1}{9} + \frac{1}{9} = \frac{3}{9}, \frac{1}{3} = 3 \times \frac{1}{9} = \frac{3}{9}$
  - c. Area model shows  $\frac{1}{3} = \frac{4}{12}; \frac{1}{3} = \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} = \frac{4}{12}, \frac{1}{3} = 4 \times \frac{1}{12} = \frac{4}{12}$
  - d. Area model shows  $\frac{1}{3} = \frac{5}{15}; \frac{1}{3} = \frac{1}{15} + \frac{1}{15} + \frac{1}{15} + \frac{1}{15} + \frac{1}{15} = \frac{5}{15}, \frac{1}{3} = 5 \times \frac{1}{15} = \frac{5}{15}$
  - e. Area model shows  $\frac{1}{5} = \frac{2}{10}; \frac{1}{5} = \frac{1}{10} + \frac{1}{10} = \frac{2}{10}, \frac{1}{5} = 2 \times \frac{1}{10} = \frac{2}{10}$
  - f. Area model shows  $\frac{1}{5} = \frac{3}{15}; \frac{1}{5} = \frac{1}{15} + \frac{1}{15} + \frac{1}{15} = \frac{3}{15}, \frac{1}{5} = 3 \times \frac{1}{15} = \frac{3}{15}$
3. Explanations will vary.