Activity 1 — Revise fractions

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Pair

1. a. $\frac{1}{2}; \frac{1}{3}; \frac{1}{4}; \frac{1}{5}; \frac{1}{6}; \frac{1}{7}; \frac{1}{8}$

   b. $\frac{1}{8}; \frac{1}{7}; \frac{1}{6}; \frac{1}{5}; \frac{1}{4}; \frac{1}{3}; \frac{1}{2}$

2. a. $\frac{1}{4} < \frac{1}{3}$ b. $\frac{1}{2} > \frac{1}{5}$ c. $\frac{1}{7} < \frac{1}{6}$

   d. $\frac{1}{6} > \frac{1}{8}$ e. $\frac{1}{4}$ of a packet   f. $\frac{1}{4}$ of a slab.

3. a. $10; 10\frac{1}{2}; 11; 11\frac{1}{2}; 12; 12\frac{1}{2}; 13; 13\frac{1}{2}; 14; 14\frac{1}{2}; 15; 15\frac{1}{2}; 16; 16\frac{1}{2}; 17; 17\frac{1}{2}; 18$

   b. $3; 3\frac{1}{3}; 3\frac{2}{3}; 4; 4\frac{1}{3}; 4\frac{2}{3}; 5; 5\frac{1}{3}; 5\frac{2}{3}; 6$

Activity 2 — Fractions pieces

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1.

a.	$\frac{4}{5}$	$\frac{1}{5}$	$\frac{5}{5}$ = 1 whole
b.	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{2}{2}$ = 1 whole
c.	$\frac{5}{8}$	$\frac{3}{8}$	$\frac{8}{8}$ = 1 whole
d.	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{4}{4}$ = 1 whole
e.	$\frac{3}{6}$	$\frac{3}{6}$	$\frac{6}{6}$ = 1 whole
f.	$\frac{2}{3}$	$\frac{1}{3}$	$\frac{3}{3}$ = 1 whole
g.	$\frac{4}{7}$	$\frac{3}{7}$	$\frac{7}{7}$ = 1 whole
h.	$\frac{1}{3}$	$\frac{2}{3}$	$\frac{3}{3}$ = 1 whole

2. a. $\frac{1}{2} = \frac{2}{4}$ b. $\frac{1}{2} = \frac{4}{8}$ c. $\frac{1}{4} = \frac{2}{8}$

   d. $1 = \frac{4}{4}$ e. $1 = \frac{8}{8}$ f. $1 = \frac{2}{2}$

   g. $\frac{3}{4} = \frac{6}{8}$ h. $\frac{2}{8} = \frac{1}{4}$ i. $\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$

3. a. If we are finding $\frac{1}{8}$ of a number we divide it by 8

   b. If we are finding $\frac{1}{6}$ of a number we divide it by 6

   c. If we are finding $\frac{1}{4}$ of a number we divide it by 4

   d. If we are finding $\frac{1}{7}$ of a number we divide it by 7

4. a. $\frac{1}{6}$ of 18 = 3   b. $\frac{1}{4}$ of 8 = 2   c. $\frac{1}{5}$ of 35 = 7

   d. $\frac{1}{3}$ of 24 = 8   e. $\frac{1}{2}$ of 20 = 10   f. $\frac{1}{6}$ of 54 = 9

   g. $\frac{1}{4}$ of 20 = 5   h. $\frac{1}{6}$ of 36 = 6   i. $\frac{1}{3}$ of 27 = 9

   j. $\frac{1}{2}$ of 42 = 21   k. $\frac{1}{3}$ of 9 = 3   l. $\frac{1}{7}$ of 21 = 3

5. Each boy gets 8 marbles.   6. Each girl gets 6 sweets.

7. Each girl gets 7 crayons.   8. Each boy gets 3 balls.

9. $\frac{1}{6}$ of 24 centimetres = 4 centimetres.

Activity 3
Addition of fractions with the same denominator

Individual

1. a. $\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$ b. $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$ c. $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$

   d. $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$ e. $\frac{3}{7} + \frac{2}{7} = \frac{5}{7}$ f. $\frac{1}{8} + \frac{3}{8} = \frac{4}{8}$ $(\frac{1}{2})$

   g. $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$ h. $\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$ $(\frac{1}{2})$

2. Individual work. Answers will vary. Learners can check each others' work.

3. Diagrams will vary. Answer must show that each child gets ⅓ of each pizza.

Activity 4
Subtraction of fractions with the same denominator

Pair

1. a. $\frac{3}{6} - \frac{2}{6} = \frac{1}{6}$ b. $\frac{4}{8} - \frac{3}{8} = \frac{1}{8}$ c. $\frac{1}{3} - \frac{1}{3} = 0$

   d. $\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$ e. $\frac{3}{7} - \frac{2}{7} = \frac{1}{7}$ f. $\frac{4}{6} - \frac{1}{6} = \frac{3}{6}$

   g. $\frac{7}{8} - \frac{3}{8} = \frac{4}{8}$ h. $\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$

2. a. 9; 8 $\frac{1}{2}$; 8; 7 $\frac{1}{2}$; 7; 6 $\frac{1}{2}$; 6; 5 $\frac{1}{2}$; 5; 4 $\frac{1}{2}$

3. 2 $\frac{1}{4}$; 2; 1 $\frac{3}{4}$; 1 $\frac{1}{2}$; 1 $\frac{1}{4}$; 1; $\frac{3}{4}$; $\frac{1}{2}$; $\frac{1}{4}$

4. a. $\frac{1}{4}$ ($\frac{8}{32}$)   b. Each child gets 8 blocks of chocolate