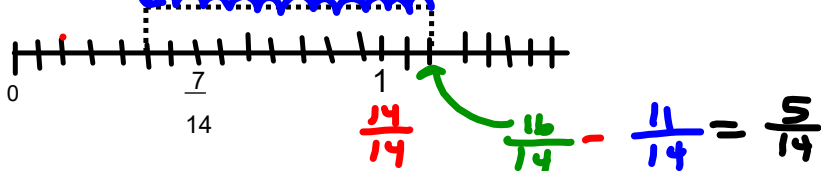


# Grade 7 Math

1) What is the subtraction equation?



$$\frac{8}{7} - \frac{1}{14} = \frac{5}{7}$$

$$\begin{array}{r}
 2) \quad 4 \frac{1}{4} - 2 \frac{9}{10} \\
 5 \times \quad 5 \times \quad \frac{17}{4} - \frac{29}{10} \\
 \frac{85}{20} - \frac{58}{20} \\
 \frac{27}{20} = 1 \frac{7}{20}
 \end{array}$$

3)

a) Find two fractions with the same denominators that has a difference of  $\frac{7}{12}$  ?

$$\frac{8}{12} - \frac{1}{12} = \frac{7}{12}$$

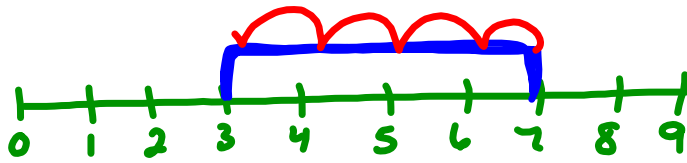
$$\begin{array}{l}
 \frac{9}{12} - \frac{2}{12} \\
 \frac{17}{12} - \frac{10}{12}
 \end{array}$$

b) Find two fractions with different denominators that has a difference of  $\frac{7}{12}$  ?

$$\frac{4}{6} - \frac{1}{12} = \frac{7}{12}$$

$$\frac{2}{3} - \frac{1}{12} = \frac{7}{12}$$

$$\frac{2}{3} - \frac{2}{24} = \frac{7}{12}$$



$$7 - 4 = 3$$

Go over homework

pg. 207 # 1 orally, #2 and 4 have students put on the board

$$3. \frac{2}{3} - \frac{1}{2} = \frac{1}{6}$$

$$a) 2\frac{2}{3} - \frac{1}{2}$$

$$2\frac{1}{6}$$

$$b) 2\frac{2}{3} - 1\frac{1}{2}$$

$$1\frac{1}{6}$$

$$c) 4\frac{2}{3} - 2\frac{1}{2}$$

$$2\frac{1}{6}$$

$$d) 5\frac{2}{3} - 1\frac{1}{2}$$

$$4\frac{1}{6}$$

$$a) 2\frac{2}{3} - \frac{1}{2}$$

$$2\frac{4}{6} - \frac{3}{6} = 2\frac{1}{6}$$

$$b) 2\frac{2}{3} - 1\frac{1}{2}$$

$$2\frac{4}{6} - 1\frac{3}{6} = 1\frac{1}{6}$$

$$c) 4\frac{2}{3} - 2\frac{1}{2}$$

$$4\frac{4}{6} - 2\frac{3}{6} = 2\frac{1}{6}$$

$$d) 5\frac{2}{3} - 1\frac{1}{2}$$

$$5\frac{4}{6} - 1\frac{3}{6} = 4\frac{1}{6}$$

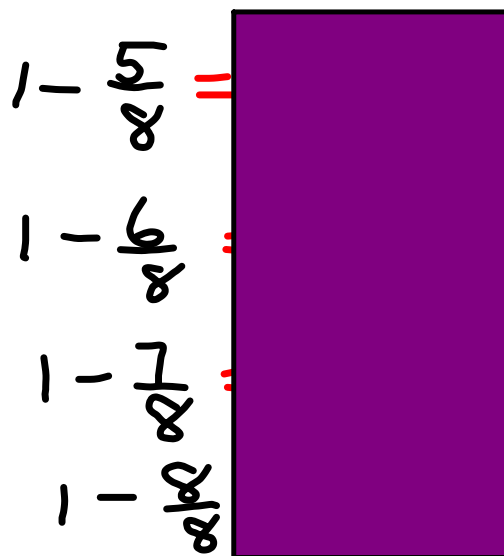
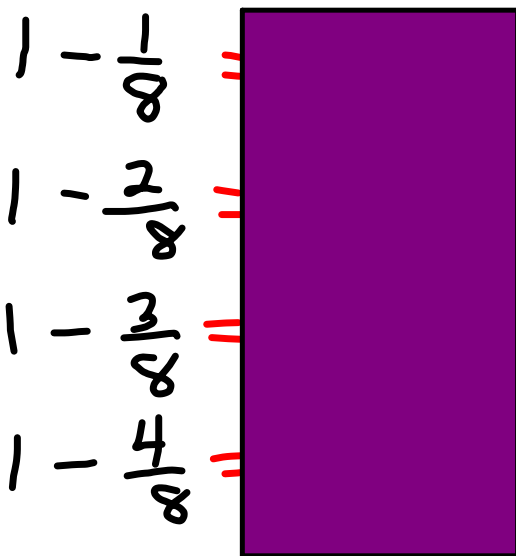
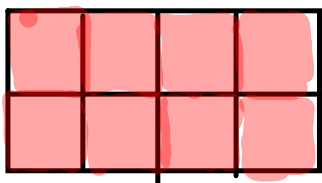
$$\begin{array}{r} 4. a) \frac{7}{2} - \frac{5}{4} \\ \frac{14}{4} - \frac{5}{4} \\ \hline \frac{9}{4} \end{array}$$

$$\begin{array}{r} b) \frac{13}{6} - \frac{8}{12} \\ \frac{26}{12} - \frac{8}{12} \\ \hline \frac{18}{12} \text{ or } \frac{3}{2} \end{array}$$

$$\begin{array}{r} c) \frac{5}{4} - \frac{3}{5} \\ \frac{25}{20} - \frac{12}{20} \\ \hline \frac{13}{20} \end{array}$$

$$\begin{array}{r} d) \frac{9}{5} - \frac{1}{2} \\ \frac{18}{10} - \frac{5}{10} \\ \hline \frac{13}{10} \end{array}$$

5.



$$1 - \frac{3}{5} = \frac{2}{5}$$

$$1 - \frac{4}{9} = \frac{5}{9}$$

$$1 - \frac{7}{10} = \frac{3}{10}$$

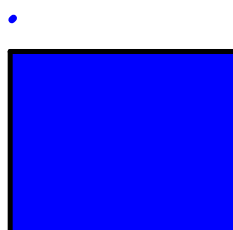
$$1 - \frac{11}{12} = \frac{1}{12}$$

$$1 - \frac{13}{20} = \frac{7}{20}$$

$$2 - \frac{1}{3} = 1\frac{2}{3} \text{ or } \frac{5}{3}$$

$$5 \text{ a) } 3 - \frac{4}{5} = 2\frac{1}{5}$$

$$\frac{15}{5} - \frac{4}{5} = \frac{11}{5}$$



$$b) \frac{4}{1} - \frac{3}{7} = 3\frac{4}{7}$$

$$\frac{28}{7} - \frac{3}{7} = \frac{25}{7}$$

$$c) 5 - \frac{5}{6} = 4\frac{1}{6}$$

$$\frac{30}{6} - \frac{5}{6} = \frac{25}{6}$$

$$d) 6 - \frac{4}{9} = 5\frac{5}{9}$$

$$\frac{54}{9} - \frac{4}{9} = \frac{50}{9}$$

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$$7 \text{ (i)} \quad 3\frac{3}{5} - 1\frac{3}{10}$$

$$3\frac{6}{10} - 1\frac{3}{10}$$

$$2\frac{3}{10}$$

$$3\frac{3}{5} - 1\frac{3}{10}$$

$$\frac{18}{5} - \frac{13}{10}$$

$$\frac{36}{10} - \frac{13}{10} = \frac{23}{10}$$

$$12 \quad 3\frac{3}{10} - 1\frac{3}{5}$$

$$3\frac{3}{10} - 1\frac{6}{10}$$

$$2\frac{13}{10} - 1\frac{6}{10}$$

$$1\frac{7}{10}$$

$$3\frac{3}{10} - 1\frac{3}{5}$$

$$\frac{33}{10} - \frac{8}{5}$$

$$\frac{33}{10} - \frac{16}{10}$$

$$\frac{17}{10}$$

$$8. \quad \frac{3}{8} + \frac{7}{10}$$
$$\frac{15}{40} + \frac{28}{40} = \frac{43}{40}$$

$$2\frac{1}{2} - \frac{43}{40}$$

$$\frac{5}{2} - \frac{43}{40}$$

$$\frac{100}{40} - \frac{43}{40} = \frac{57}{40} \text{ or } 1\frac{17}{40} \text{ left}$$

$$9. \quad 2\frac{1}{6} - 1\frac{1}{4}$$

$$\frac{13}{6} - \frac{5}{4}$$

$$\frac{26}{12} - \frac{15}{12} = \frac{11}{12}$$

(55 min left)



$$\begin{aligned} 10a) \quad & 3\frac{2}{3} - 2\frac{7}{8} \\ & \frac{11}{3} - \frac{23}{8} \\ & \frac{88}{24} - \frac{69}{24} \\ & \frac{19}{24} \end{aligned}$$

$$\begin{aligned} b) \quad & 5\frac{1}{2} - 3\frac{7}{9} \\ & \frac{11}{2} - \frac{34}{9} \\ & \frac{99}{18} - \frac{68}{18} \\ & \frac{31}{18} \text{ or } 1\frac{13}{18} \end{aligned}$$

$$\begin{aligned} c) \quad & 4\frac{3}{5} - 1\frac{2}{3} \\ & \frac{23}{5} - \frac{5}{3} \\ & \frac{69}{15} - \frac{25}{15} \\ & \frac{44}{15} \text{ or } 2\frac{14}{15} \end{aligned}$$

$$10d) 4\frac{2}{5} - 1\frac{7}{8}$$

$$4\frac{16}{40} - 1\frac{35}{40}$$

$$3\frac{56}{40} - 1\frac{35}{40}$$

$$2\frac{21}{40}$$

$$\frac{22}{5} - \frac{15}{8}$$

$$\frac{176}{40} - \frac{75}{40}$$

$$\frac{101}{40}$$

$$11a) 5\frac{1}{8} - 3\frac{2}{3}$$

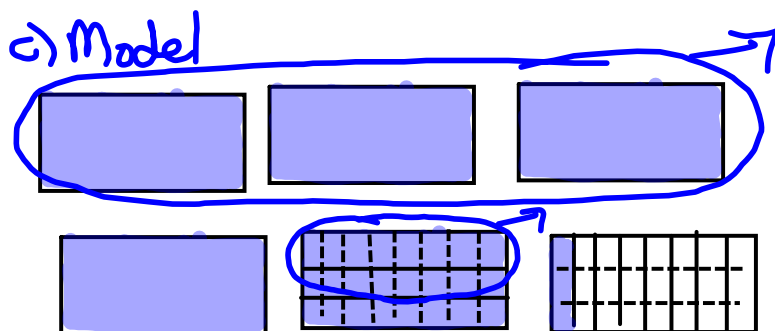
$$\approx 5 - 3\frac{1}{2} \quad \text{about } 1\frac{1}{2} \text{ more}$$

$$b) 5\frac{1}{8} - 3\frac{2}{3}$$

$$\frac{41}{8} - \frac{11}{3}$$

$$\frac{123}{24} - \frac{88}{24}$$

$$\frac{35}{24} \text{ or } 1\frac{11}{24}$$



$$1\frac{11}{24}$$

$$d) 5\frac{1}{8} + 3\frac{2}{3}$$

$$5\frac{3}{24} + 3\frac{16}{24}$$

$$8\frac{19}{24}$$

$$10 - 8\frac{19}{24}$$

$$10 - 8 = 2$$

$$2 - \frac{19}{24} = 1\frac{5}{24}$$

$$12. \quad 4\frac{1}{8} - \square = 1\frac{1}{2}$$

$$4 - \underline{\quad} = 3$$

$$\text{so } 4 - 3 = \underline{\quad}$$

$$\text{or } 3 + \underline{\quad} = 4$$

$$4\frac{1}{8} - 1\frac{1}{2}$$

$$4\frac{1}{8} - 1\frac{4}{8}$$

$$3\frac{9}{8} - 1\frac{4}{8}$$

$$2\frac{5}{8}$$


$$3\frac{3}{8} - \square = 1\frac{12}{8}$$

$$\square = 2\frac{5}{8} \text{ or } 2\frac{1}{8}$$

Test Tomorrow

Work period

$$\frac{3x^2}{4x^2} + \frac{8}{2}$$

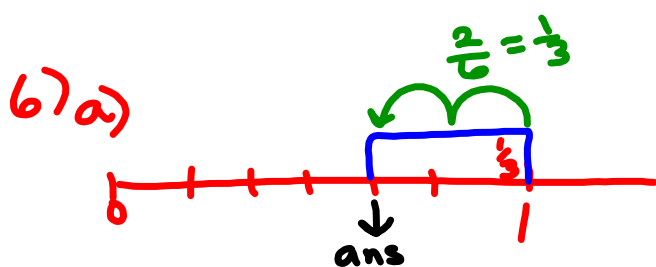
$$\frac{6}{8} + \frac{2}{6} = \frac{8}{8}$$


Page 213-214 #2ab (use rectangles), #5abcd, 6bc, 8, 9, 10 bc,  
11, 12, 14cd,, 16ac, 17ab, 19

Check answers on page 365

$$10 \text{ b) } \frac{9}{4} - \frac{6}{4} = \frac{3}{4}$$

$$\frac{9}{4} - \frac{6}{2} = \frac{3}{4}$$



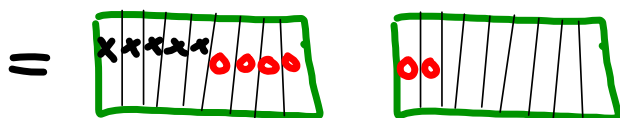
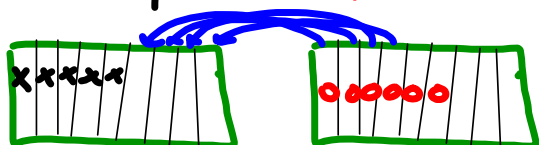
$$1 - \frac{1}{3} = \frac{2}{3}$$

$$\frac{6}{6} - \frac{2}{6} = \frac{4}{6} \quad \text{) Reduce}$$

$$\frac{5}{9} + \frac{2}{3} \begin{matrix} \times 3 \\ \times 3 \end{matrix} \quad \text{Model}$$

$$\frac{5}{9} + \frac{6}{9} = \frac{11}{9} = 1\frac{2}{9}$$

← Shade  
bar cut into



$$1\frac{2}{9}$$

