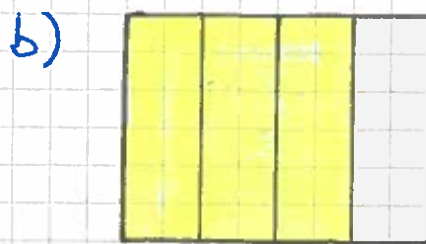


SI/2 HW9



2) a) $\frac{1}{7} = \frac{2}{14}$ b) $\frac{2}{3} = \frac{6}{9}$ c) $\frac{3}{5} = \frac{15}{25}$

3) $\frac{1}{7} = \frac{2}{14} = \frac{3}{21} = \frac{4}{28} = \frac{5}{35} = \frac{6}{42} = \frac{7}{49}$ (any pair)

4) a) $\frac{2}{5} = \frac{12}{30}$ (1) $\frac{2}{3} = \frac{20}{30}$ (3) $\frac{7}{10} = \frac{21}{30}$ (4) $\frac{1}{2} = \frac{15}{30}$ (2)

common denominator 30

$\Rightarrow \frac{2}{5}, \frac{1}{2}, \frac{2}{3}, \frac{7}{10}$

b) $\frac{3}{4} = \frac{30}{40}$ (4) $\frac{1}{2} = \frac{20}{40}$ (2) $\frac{5}{8} = \frac{25}{40}$ (3) $\frac{2}{5} = \frac{16}{40}$ (1)

common denominator 40

$\Rightarrow \frac{2}{5}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}$

5) a) $\frac{2}{6} = \frac{1}{3}$

b) $\frac{4}{16} = \frac{1}{4}$

c) $\frac{4}{18} = \frac{2}{9}$

d) $\frac{8}{28} = \frac{2}{7}$

6) a) $\frac{8}{5} = 1\frac{3}{5}$

b) $\frac{9}{2} = 4\frac{1}{2}$

$8 \div 5 = 1 \text{ r } 3$

$9 \div 2 = 4 \text{ r } 1$

c) $3\frac{4}{5} = \frac{19}{5}$

d) $7\frac{5}{8} = \frac{61}{8}$

$3 \times 5 = 15$
 $15 + 4 = 19$

$7 \times 8 = 56$
 $56 + 5 = 61$

$$7) \quad a) \quad \frac{1}{2} \text{ of } 564 \\ = 282$$

$$\begin{array}{r} 282 \\ 2 \overline{)564} \end{array}$$

$$b) \quad \frac{1}{7} \text{ of } 2996 \\ = 428$$

$$\begin{array}{r} 428 \\ 7 \overline{)2996} \end{array}$$

$$c) \quad \frac{5}{8} \text{ of } 1176 \\ = 735$$

$$\begin{array}{r} 147 \\ 8 \overline{)1176} \end{array} \rightarrow \begin{array}{r} 147 \\ 2 \times 35 \\ \hline 735 \end{array}$$

$$d) \quad \frac{4}{9} \text{ of } 3168 \\ = 1408$$

$$\begin{array}{r} 352 \\ 9 \overline{)3168} \end{array} \rightarrow \begin{array}{r} 352 \\ 2 \times 4 \\ \hline 1408 \end{array}$$

$$e) \quad \frac{3}{4} \text{ of } 3284 \\ = 2463$$

$$\begin{array}{r} 821 \\ 4 \overline{)3284} \end{array} \rightarrow \begin{array}{r} 821 \\ \times 3 \\ \hline 2463 \end{array}$$

$$f) \quad \frac{5}{6} \text{ of } 1944 \\ = 1620$$

$$\begin{array}{r} 324 \\ 6 \overline{)1944} \end{array} \rightarrow \begin{array}{r} 324 \\ 1 \times 25 \\ \hline 1620 \end{array}$$