Efercicios

$$(4.8.1)$$
 a) $4\frac{7}{8}-1\frac{3}{4}=3+\frac{7}{8}-\frac{6}{8}=3+\frac{1}{8}=3\frac{1}{8}$

(6)
$$3\frac{1}{3} - 7\frac{2}{9} = 3 + \frac{1}{3} - 7 - \frac{2}{9}$$

$$= -4 + \frac{3}{9} - \frac{2}{9} = -4 + \frac{1}{9}$$

$$= -3 - \frac{8}{9} = -\left(3\frac{8}{9}\right)$$

(c)
$$|q| \frac{3}{20} - q \frac{13}{15} = 10 + \frac{q}{60} - \frac{52}{60}$$

= $|0 - \frac{43}{60}|$
= $|0 + \frac{17}{60}| = |q| \frac{17}{60}$

(1)
$$18 - \left(6\frac{1}{2} + 5\frac{1}{3}\right) \approx 18 - \left(11 + \frac{3}{6} + \frac{2}{6}\right)$$

$$= 18 - \left(11 + \frac{5}{6}\right)$$

$$= 7 - \frac{5}{6}$$

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

(e)
$$5\frac{5}{12} \cdot 24 = \left(5 + \frac{5}{12}\right) \cdot 24 = 120 + 10 = 130$$

$$(5) 1 \frac{1}{2} \cdot (6\frac{2}{3} - 4\frac{4}{9}) = \frac{3}{2} \cdot (2 + \frac{6}{9} - \frac{4}{9})$$

$$\frac{3}{2} (2 + \frac{2}{9}) = 3 + \frac{1}{3}$$

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

(9)
$$5\frac{1}{3} + 2\frac{1}{3} \div 3\frac{1}{2} = 5\frac{1}{3} + (2+\frac{1}{3}) \div (7/2)$$

$$= 5\frac{1}{3} + (\frac{2}{3}) \cdot \frac{2}{4}$$

$$= 5\frac{1}{3} + \frac{2}{3} = 5 + \frac{3}{3} = 6$$
(b) $2 \cdot (7+)$

$$\frac{11}{3} \div \left(-6\frac{7}{8}\right)$$

$$\frac{11}{3} \div \left(-\frac{48}{8} - \frac{7}{8}\right) = \frac{11}{3} \div \left(-\frac{55}{8}\right)$$

$$= \frac{11}{3} \cdot - \left(\frac{9}{58}\right) = -\frac{9}{15}$$

$$4.8.2)$$

$$= \frac{1}{2} + 3\frac{1}{3} + 4\frac{1}{4} + 5\frac{1}{5} + 6\frac{1}{6}$$

$$= 20 + \left(\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6}\right)$$

$$= 20 + \left(\frac{3}{6} + \frac{2}{6} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6}\right)$$

$$= 20 + \left(1 + \frac{1}{4} + \frac{1}{5}\right)$$

$$= 21 + \frac{1}{4} + \frac{1}{5}$$

$$4.8.4)$$

$$136 \frac{3}{4} - 131 \frac{7}{8} = 5 + \frac{3}{4} - \frac{7}{8}$$

$$= 5 + \frac{6}{8} - \frac{7}{8} = 5 - \frac{1}{8} = 4 \frac{7}{8}$$

$$4.8.5)$$

$$3(2\frac{1}{2}) + 3(3\frac{1}{3}) = 6 + \frac{3}{2} + 9 + 1$$

$$= 16 + \frac{3}{2} = 17 + \frac{1}{2}$$

$$4.8.6)$$

$$60 - 6\frac{1}{2} = 54 - \frac{1}{2} = (53 + \frac{1}{2}) \cdot \frac{1}{60}$$

$$= \frac{63}{60} + \frac{1}{120} = \frac{106}{120} + \frac{1}{120}$$