

Date : 10.15.18

$$\# 20. \frac{7}{12} \cdot \frac{18}{35}$$

$$= \frac{\cancel{7}}{\cancel{2} \cdot \cancel{2} \cdot 3} \cdot \frac{\cancel{2} \cdot \cancel{3} \cdot 3}{5 \cdot \cancel{7}}$$

$$= \frac{3}{10}$$

$$\# 12. \left(-\frac{9}{10}\right) \left(-\frac{7}{4}\right)$$

$$= + \frac{3 \cdot 3 \cdot 7}{2 \cdot 5 \cdot 2 \cdot 2}$$

$$= \frac{63}{40}$$

$$\# 24. \frac{49}{24} \cdot \left(-\frac{6}{7}\right)$$

$$= \frac{-\cancel{7} \cdot \cancel{7}}{\cancel{2} \cdot \cancel{3} \cdot 2 \cdot 2} \cdot \frac{\cancel{2} \cdot \cancel{3}}{\cancel{7}}$$

$$= -\frac{7}{4}$$

$$\# 67. \frac{15}{2} \div (-3/2)$$

$$= \frac{15}{2} \times \left(-\frac{2}{3}\right)$$

$$= -5$$

$$\# 73. \frac{12}{5} \div (-4)$$

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

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

$$\# -5 \div \left(\frac{15}{4}\right)$$

$$= -5 \times \frac{4}{3 \cdot 5}$$

$$= -\frac{4}{3}$$

$$\# 32. \frac{5}{6} + \frac{3}{8}$$

$$= \frac{4}{4} \cdot \frac{5}{6} + \frac{3}{8} \cdot \frac{3}{3}$$

$$= \frac{20}{24} + \frac{9}{24} = \frac{29}{24}$$

$$\# -\frac{5}{6} + \frac{3}{8}$$

$$\Rightarrow = -\frac{20}{24} + \frac{9}{24}$$

$$= \frac{-11}{24}$$

$$\# -\frac{7}{6} - \frac{1}{15}$$

$$= \frac{-35}{30} - \frac{2}{30}$$

$$= \frac{-37}{30}$$

Book #52.

$$\frac{7}{12} - \frac{2}{15} + \frac{5}{18}$$

$$12 = 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5$$

$$15 = 3 \cdot 5 \cdot 2 \cdot 2 \cdot 3$$

$$18 = 2 \cdot 3 \cdot 3 \cdot 2 \cdot 5$$

$$\text{CD} = 180$$

#56.

$$-\frac{1}{3} + \frac{1}{9} - \frac{1}{27} + \frac{1}{81}$$

$$= \frac{-27 + 9 - 3 + 1}{81}$$

$$= \frac{-20}{81}$$

Practice 14.

$$\textcircled{a} -\frac{4}{3} - (-\frac{1}{2})$$

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

$$= -\frac{8}{6} + \frac{3}{6}$$

$$= \frac{-8+3}{6}$$

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

$$\textcircled{b} -\frac{3}{4} + (-\frac{1}{6})$$

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

$$= \frac{-9}{12} - \frac{2}{12}$$

$$= \frac{-9-2}{12} = -\frac{11}{12}$$

$$\#17. (a) \frac{8}{9} \left(-\frac{27}{4}\right)$$

$$= -\frac{2.4}{3.3} \cdot \frac{\cancel{1}3.3}{\cancel{2}2}$$

$$= -2.3$$

$$= -6$$

$$18. (b) -\frac{20}{3} \div \left(-\frac{5}{21}\right)$$

$$= \frac{\cancel{2}2.5}{3} \times \frac{\cancel{3}7}{\cancel{5}}$$

$$= 28$$

$$19. \frac{-1.26}{0.3} = -4.2$$

$$\#17. (b) -\frac{14}{15} \left(\frac{5}{21}\right)$$

$$= -\frac{2.7}{3.5} \cdot \frac{\cancel{5}}{\cancel{7}3}$$

$$= -\frac{2}{9}$$

$$19. (b) \frac{-0.825}{-6}$$

$$= 0.1375$$

$$\# -\frac{2}{3} \div \left(-\frac{1}{4}\right) + \frac{1}{3}$$

$$= -\frac{2}{3} \times (-4) + \frac{1}{3}$$

$$= \frac{8}{3} + \frac{1}{3}$$

$$= \frac{9}{3}$$

$$= 3$$

$$\#18 (a)$$

$$\frac{3}{7} \div \left(-\frac{9}{28}\right)$$

$$= \frac{-3}{7} \times \frac{28}{9}$$

$$= \frac{-\cancel{3}}{7} \times \frac{\cancel{4}7}{\cancel{3}3}$$

$$= -\frac{4}{3}$$

$$\# \frac{4}{3} \div \left(-\frac{8}{5}\right) - \frac{1}{3}$$

$$= \frac{4}{3} \cdot \left(-\frac{5}{8}\right) - \frac{1}{3}$$

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

$$= \frac{-5}{6} - \frac{2}{6}$$

$$\boxed{\frac{-8}{6}} = \frac{-7}{6}$$

$$\# 25. (b)$$

$$\frac{7 - 4\sqrt{9}}{9 \div 3(9-12)}$$

$$= \frac{7-16}{9 \div 3(-3)}$$

$$= \frac{-9}{9 \div (-3)}$$

$$= \frac{-9}{-9}$$

$$= 1$$

$$\# 25.$$

$$\frac{-5(3) - 3(4)}{-6(8-12) \div (-3)}$$

$$= \frac{-5(3) - 3(4)}{-6(-4) \div (-3)}$$

$$= \frac{-45 - 12}{24 \times \frac{-1}{3}}$$

$$= \frac{-57}{-8}$$

$$= \frac{57}{8}$$

$$\# 28. (b)$$

$$\frac{-3m+4n}{5-25}$$

$$m = -3$$

$$n = 3$$

$$s = 1$$

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

$$= \frac{9+12}{5-2}$$

$$= \frac{21}{3}$$

$$= 7$$