

## Review questions

$$\textcircled{1.} \quad \frac{4}{3} - \frac{11}{6}$$

$$\textcircled{2.} \quad -4\frac{1}{7} + \left(-1\frac{3}{5}\right)$$

$$\textcircled{3.} \quad \frac{9}{10} \div \left(-\frac{3}{2}\right)$$

$$\textcircled{4.} \quad 1\frac{3}{5} \times \left(-2\frac{1}{2}\right)$$

$$\textcircled{5.} \quad -\frac{4}{5} \div \left(\frac{1}{2} + \left(-\frac{1}{6}\right)\left(-\frac{1}{6}\right) \times \frac{1}{4}\right)$$

solutions...

$$\begin{aligned} \textcircled{1} \quad \frac{4}{3} - \frac{11}{6} &= \frac{8}{6} - \frac{11}{6} \\ &= -\frac{3}{6} \\ &= -\frac{1}{2} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad -4\frac{1}{7} + \left(-1\frac{3}{5}\right) &= -\frac{29}{7} - \frac{8}{5} \\ &\quad \times 5 \qquad \qquad \qquad \times 7 \\ &= -\frac{145}{35} - \frac{56}{35} \\ &= -\frac{201}{35} \\ &= -5\frac{26}{35} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad \frac{9}{10} \div \left(-\frac{3}{2}\right) &= \frac{\cancel{9}^3}{\cancel{10}_5} \times -\frac{\cancel{2}}{\cancel{3}} \\ &= -\frac{3}{5} \end{aligned} \qquad \begin{aligned} &-\frac{18}{30} \div 6 \\ &-\frac{3}{5} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 1\frac{3}{5} \times \left(-2\frac{1}{2}\right) &= \frac{\cancel{6}^3}{\cancel{5}_1} \times -\frac{\cancel{2}}{\cancel{2}} \\ &= -4 \end{aligned} \qquad \begin{aligned} &\xrightarrow{\text{or}} -\frac{40}{10} \\ &-4 \end{aligned}$$

$$\textcircled{5} \quad -\frac{4}{5} \div \left( \frac{1}{2} + \left(-\frac{1}{6}\right)\left(-\frac{1}{6}\right) \times \frac{1}{4} \right)$$

$$-\frac{4}{5} \div \left( \frac{1}{2} + \frac{1}{144} \right)$$

$$-\frac{4}{5} \div \left( \frac{72}{144} + \frac{1}{144} \right)$$

$$-\frac{4}{5} \times \frac{144}{73}$$

$$= -\frac{576}{365}$$

$$= -1 \frac{211}{365}$$

## Worksheet #2

$$\left(-\frac{1}{2}\right)^3 \times \left(\left(-\frac{2}{3}\right) \div \left(-\frac{5}{6}\right) - \frac{1}{2}\right)$$

$$\left(-\frac{1}{2}\right)^3 \times \left(-\frac{2}{3} \times -\frac{6}{5} - \frac{1}{2}\right)$$

$$\left(-\frac{1}{2}\right)^3 \times \left(\frac{12}{15} - \frac{1}{2}\right)$$

$$\left(-\frac{1}{2}\right)^3 \times \left(\frac{24}{30} - \frac{15}{30}\right)$$

$$= \left(-\frac{1}{2}\right)^3 \times \frac{9}{30}$$

$$= -\frac{1}{8} \times \frac{9}{30}$$

$$= -\frac{9}{240}$$

$$= -\frac{3}{80}$$

$$\left(\frac{2}{3}\right)^2 \times \left(\frac{5}{6} \div \frac{2}{5} - \frac{1}{4}\right)$$

$$\frac{4}{9} \times \left(\frac{5}{6} \times \frac{5}{2} - \frac{1}{4}\right) \quad \left. \right\} \times 3$$

$$\frac{4}{9} \times \left(\frac{25}{12} - \frac{3}{12}\right)$$

$$\frac{4}{9} \times \frac{22}{12}$$

$$= \frac{22}{27}$$

$$\begin{aligned} & \left( \left( -\frac{3}{5} \right) \times \left( \frac{1}{2} \right)^2 \right) \div \left( \left( -\frac{1}{8} \right) + \frac{3}{5} \right) \\ &= \left( -\frac{3}{5} \times \frac{1}{4} \right) \div \left( -\frac{1}{8} + \frac{3}{5} \right) \\ &= -\frac{3}{20} \div \left( -\frac{5}{40} + \frac{24}{40} \right) \\ &= -\frac{3}{20} \times \frac{40}{19} \\ &= -\frac{6}{19} \end{aligned}$$

$$\begin{aligned} & \left( \left( -\frac{1}{5} \right)^2 - \frac{2}{5} + \frac{1}{5} \right) \times \left( -\frac{7}{8} \right) \\ & \quad \quad \quad \times 5 \quad \times 5 \\ &= \left( \frac{1}{25} - \frac{10}{25} + \frac{5}{25} \right) \times -\frac{7}{8} \\ &= -\frac{4}{25} \times -\frac{7}{8} \\ &= \frac{7}{50} \end{aligned}$$

## Problems with the homework?

**Page 143: Study Guide (Unit 3)**

**Page 144: #1, 2, 3, 4, 5, 6, 7, 8, 9, 10, and 12**

**Page 145: #14, 19, 21, 22, and 23**

**Page 146: ALL!**



Homework: Test on chapter 3

