

1.6 HOMEWORK HANDOUT (WORK PERIOD): BEDMAS WITH FRACTIONS

1) Evaluate. Express your answer in lowest terms.

$$\begin{array}{ll} \text{a)} & 2\frac{7}{9} + 1\frac{2}{3} - \frac{4}{5} \\ \text{b)} & \frac{7}{16} + \left(\frac{5}{8} - \frac{3}{4}\right) \\ \text{c)} & 10\frac{3}{5} - \left(5\frac{1}{4} + 2\frac{2}{3}\right) \\ \text{d)} & -9\frac{7}{10} - \left(2\frac{5}{6} - 4\frac{2}{9}\right) \end{array}$$

2) Evaluate. Express your answer in lowest terms.

$$\begin{array}{lll} \text{a)} & \frac{4}{5} \times \frac{2}{3} \times 8 & \text{b)} & -\frac{7}{11} \div \frac{3}{5} \times \frac{1}{2} & \text{c)} & 1\frac{1}{2} \times \frac{4}{9} \div 2\frac{1}{4} \\ \text{d)} & \frac{5}{8} + \frac{2}{3} \times \frac{7}{8} & \text{e)} & 4\frac{1}{2} \times \left(-\frac{2}{3}\right) + \frac{7}{8} & \text{f)} & \frac{1}{3} \times \frac{5}{8} + \frac{1}{4} \times \left(-\frac{1}{2}\right) \end{array}$$

3) Evaluate. Express each answer as a mixed number.

$$\begin{array}{llll} \text{a)} & \frac{3}{4} \left(\frac{1}{2} - \frac{4}{5}\right) & \text{b)} & \left(\frac{4}{3} - \frac{1}{5}\right) \left(\frac{3}{2} + \frac{5}{6}\right) & \text{c)} & \left(-\frac{5}{6} + \frac{7}{12}\right)^2 & \text{d)} & \frac{5\frac{7}{8} - 2\frac{3}{4}}{2} \\ \text{e)} & \frac{-\frac{5}{4} + 2}{\frac{3}{10}} & \text{f)} & \left(-\frac{5}{12}\right) \left(-\frac{1}{4}\right) + \left(\frac{3}{2}\right) \left(\frac{8}{3}\right) & \text{g)} & -\frac{1}{3} \left[1\frac{3}{4} - 6\frac{2}{3}\right]^2 + \left(\frac{5}{6}\right)^2 \end{array}$$

4) Evaluate. Express each answer in lowest terms.

$$\begin{array}{lll} \text{a)} & \frac{3}{4} \times \frac{5}{6} + \frac{1}{2} & \text{b)} & \frac{2}{3} \times \left(\frac{1}{5} \div \frac{2}{5}\right) & \text{c)} & 3 - \frac{5}{6} \div \frac{1}{3} \\ \text{d)} & \frac{1}{2} - \frac{1}{3} \times \frac{12}{5} & \text{e)} & \frac{9}{10} \times 20 \div \frac{1}{3} & \text{f)} & \frac{-2}{3} \times \frac{1}{2} \div (-2) \\ \text{g)} & \frac{3}{2} \div \left(-\frac{1}{6}\right) \times \frac{1}{3} & \text{h)} & \frac{2}{3} \times \frac{5}{8} + \frac{2}{3} \times \left(-\frac{1}{8}\right) & \text{i)} & \frac{9}{8} + \left(-\frac{1}{4}\right) \times 3 \\ \text{j)} & \left(\frac{1}{2} + \frac{1}{3}\right) \div \left(\frac{1}{4} \div \frac{1}{3}\right) & \text{k)} & \left(-\frac{4}{7}\right) \div \left(-\frac{12}{7}\right) - \frac{1}{3} & \text{l)} & 4\frac{1}{2} \times \left(-\frac{2}{3}\right) + \frac{7}{8} \\ \text{m)} & \frac{4}{9} + \frac{-3}{4} \times \frac{2}{9} \div \frac{3}{5} & \text{n)} & \frac{1}{3} \times \frac{5}{8} + \frac{1}{4} \times \left(-\frac{1}{2}\right) \end{array}$$

ANSWERS

1) a) $3\frac{29}{45}$ b) $\frac{5}{16}$ c) $2\frac{41}{60}$ d) $-8\frac{14}{45}$

2) a) $\frac{64}{15}$ b) $\frac{-35}{66}$ c) $\frac{8}{27}$ d) $\frac{29}{24}$ e) $\frac{-17}{8}$ f) $\frac{1}{12}$

3) a) $-\frac{9}{40}$ b) $2\frac{29}{45}$ c) $\frac{1}{16}$ d) $1\frac{9}{16}$ e) $2\frac{1}{2}$ f) $4\frac{5}{48}$ g) $-7\frac{157}{432}$

4) a) $\frac{9}{8}$ b) $\frac{1}{3}$ c) $\frac{1}{2}$ d) $\frac{-3}{10}$ e) 54 f) $\frac{1}{6}$ g) -3 h) $\frac{1}{3}$ i) $\frac{3}{8}$ j) $\frac{10}{9}$ k) 0 l) $\frac{-17}{8}$ m) $\frac{1}{6}$ n) $\frac{1}{12}$