

Welcome to semester II.

Classroom rules

Course expectations

Breakdown of marks

15% Quizzes
 15% Assignments
 40% Tests
 30% Exam

2% plus
 for tests

Fractions

$$\begin{aligned} \frac{1}{2} + \frac{2}{3} &= \frac{3}{6} + \frac{4}{6} \\ &= \frac{7}{6} \\ &= 1\frac{1}{6} \end{aligned}$$

$$\begin{aligned} 1\frac{1}{2} + 3\frac{4}{5} &= \frac{3 \times 5}{2 \times 5} + \frac{19 \times 2}{5 \times 2} \\ &= \frac{15}{10} + \frac{38}{10} \\ &= \frac{53}{10} \\ &= 5\frac{3}{10} \end{aligned}$$

$$\begin{aligned} 1\frac{1}{2} + 3\frac{4}{5} &= 1\frac{5}{10} + 3\frac{8}{10} \\ &= 4\frac{13}{10} \\ &= 5\frac{3}{10} \end{aligned}$$

$$\begin{aligned}
 2\frac{1}{4} - 3\frac{2}{3} &= \frac{9 \times 3}{4 \times 3} - \frac{11 \times 4}{3 \times 4} \\
 &= \frac{27}{12} - \frac{44}{12} \\
 &= -\frac{17}{12} \\
 &= -1\frac{5}{12}
 \end{aligned}$$

$$\begin{aligned}
 \frac{\cancel{3}}{\cancel{4}} \times \frac{\cancel{2}}{\cancel{3}} &= \frac{6}{12} \\
 &= \frac{1}{2}
 \end{aligned}$$

$$\begin{aligned}
 -2\frac{1}{5} \times 3\frac{1}{4} \\
 -\frac{11}{5} \times \frac{13}{4} &= \frac{-143}{20} \\
 &= -7\frac{3}{20}
 \end{aligned}$$

$$\begin{aligned}
 2\frac{1}{2} \div \frac{2}{3} &= \frac{5}{2} \times \frac{3}{2} \\
 &= \frac{15}{2} \text{ or } 7\frac{1}{2}
 \end{aligned}$$

$$\begin{aligned}
 \frac{4}{5} \div \frac{3}{1} &= \frac{4}{5} \times \frac{1}{3} \\
 &= \frac{4}{15}
 \end{aligned}$$