

Print your name
course and section #

Ch 1 Sec 6

9/28/07

Divide & simplify

$$\begin{aligned} (46) \quad & \frac{36}{35} \div \frac{30}{28} \\ & = \frac{36}{35} \cdot \frac{28}{30} \\ & = \frac{\cancel{6} \cdot 6 \cdot \cancel{4} \cdot 7}{5 \cdot 7 \cdot 5 \cdot \cancel{3}} \\ & = \frac{6 \cdot 4}{5 \cdot 5} = \frac{24}{25} \end{aligned}$$

$$\begin{aligned} (54) \quad & 12 \cdot \frac{5}{6} \\ & = \frac{12}{1} \cdot \frac{5}{6} \\ & = \frac{2 \cdot \cancel{6}}{1} \cdot \frac{5}{\cancel{6} \cdot 1} \\ & = \frac{10}{1} = 10 \end{aligned}$$

$$\begin{aligned} (50) \quad & \frac{7}{12} \div \frac{5}{3} \\ & = \frac{7}{12} \cdot \frac{3}{5} \\ & = \frac{7}{\cancel{3} \cdot 4} \cdot \frac{\cancel{3} \cdot 1}{5} \\ & = \frac{7 \cdot 1}{4 \cdot 5} = \frac{7}{20} \end{aligned}$$

$$\begin{aligned} (58) \quad & \frac{17}{8} \div \frac{1}{4} \\ & = \frac{17}{8} \cdot \frac{4}{1} \\ & = \frac{17}{\cancel{4} \cdot 2} \cdot \frac{\cancel{4} \cdot 1}{1} \\ & = \frac{17 \cdot 1}{2 \cdot 1} = \frac{17}{2} \text{ or } 8 \frac{1}{2} \end{aligned}$$

8 R.1
$$\begin{array}{r} 2 \overline{)17} \\ \underline{-16} \\ 1 \end{array}$$