

11-3 Estimating Products

$$1. \quad \frac{3}{4} \times 19 \approx \frac{3}{4} \times \frac{20}{1} = \frac{60}{4} = 15$$

Cross cancel: $\frac{\overset{5}{\cancel{4}}}{\cancel{4}} \times \frac{20}{1} = \frac{3 \times 5}{1 \times 1} = \frac{15}{1} = 15$

$$2. \quad 35 \times \frac{5}{9} \approx \frac{36}{1} \times \frac{5}{9} = \frac{180}{9} = 20$$

$$\begin{array}{r} 3 \\ 36 \\ \times 5 \\ \hline 180 \end{array}$$

$$\frac{\overset{4}{\cancel{36}}}{1} \times \frac{5}{\cancel{9}} = \frac{4 \times 5}{1 \times 1} = \frac{20}{1} = 20$$

$$3. \quad 21 \frac{3}{4} \times \frac{1}{5} \approx \frac{20}{1} \times \frac{1}{5} = \frac{20}{5} = 4$$

$$4. \quad 3 \times 6 \frac{4}{5} \approx 3 \times 7 = 21$$