

31 a. $\frac{6}{5} \times \frac{11}{4}$

$$= \frac{6 \times 11}{5 \times 4}$$

$$= \frac{\cancel{2} \times 3 \times 11}{5 \times \cancel{2} \times 2}$$

$$= \frac{33}{10}$$

b. $\frac{-9}{5} \times \frac{7}{6}$

$$= - \frac{9 \times 7}{5 \times 6}$$

$$= - \frac{\cancel{3} \times 3 \times 7}{5 \times \cancel{3} \times 2}$$

$$= - \frac{21}{10}$$

c. $\frac{-10}{9} \times \frac{-7}{15}$

$$= \frac{10 \times 7}{9 \times 15}$$

$$= \frac{\cancel{2} \times \cancel{5} \times 7}{9 \times \cancel{3} \times 5}$$

$$= \frac{14}{27}$$

32 a. $-\frac{3}{10} \times \frac{5}{12}$

$$= - \frac{3 \times 5}{10 \times 12}$$

$$= - \frac{\cancel{3} \times \cancel{5} \times 1}{\cancel{2} \times \cancel{5} \times 4 \times 3}$$

$$= - \frac{1}{8}$$

b. $\frac{25}{16} \times \frac{-12}{15}$

$$= - \frac{25 \times 12}{16 \times 15}$$

$$= - \frac{\cancel{5} \times \cancel{5} \times \cancel{4} \times 3}{\cancel{4} \times \cancel{4} \times \cancel{5} \times 3}$$

$$= - \frac{5}{4}$$

c. $\frac{-9}{28} \times \frac{56}{63}$

$$= - \frac{9 \times 56}{28 \times 63}$$

$$= - \frac{\cancel{9} \times \cancel{28} \times 2}{\cancel{28} \times \cancel{9} \times 7}$$

$$= - \frac{2}{7}$$