

Name :

Score :

Multiplying Algebraic Fractions

Simplify the following.

1 $\frac{5x}{2} \times \frac{6}{x}$

2 $\frac{x}{3} \times \frac{21}{x+1}$

3 $\frac{4x}{7} \times \frac{35}{6x}$

4 $\frac{x+5}{8} \times \frac{4}{2x+10}$

5 $\frac{x+3}{4} \times \frac{3}{2x+6}$

6 $\frac{14x}{7} \times \frac{7}{2x}$

7 $\frac{3}{2x} \times \frac{x}{15}$

8 $\frac{2x+4}{18} \times \frac{3}{5}$

9 $\frac{x}{4} \times \frac{16}{9x}$

10 $\frac{6x}{3} \times \frac{7}{4x}$

11 $\frac{2x}{x+5} \times \frac{3x+15}{4}$

12 $\frac{x}{x-4} \times \frac{2x-8}{3}$

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Answers.

$$\begin{aligned} \text{1} \quad \frac{5x}{2} \times \frac{6}{x} \\ = 15 \end{aligned}$$

$$\begin{aligned} \text{2} \quad \frac{x}{3} \times \frac{21}{x+1} \\ = \frac{7x}{x+1} \end{aligned}$$

$$\begin{aligned} \text{3} \quad \frac{4x}{7} \times \frac{35}{6x} \\ = 3\frac{1}{3} \end{aligned}$$

$$\begin{aligned} \text{4} \quad \frac{x+5}{8} \times \frac{4}{2x+10} \\ = \frac{1}{4} \end{aligned}$$

$$\begin{aligned} \text{5} \quad \frac{x+3}{4} \times \frac{3}{2x+6} \\ = \frac{3}{8} \end{aligned}$$

$$\begin{aligned} \text{6} \quad \frac{14x}{7} \times \frac{7}{2x} \\ = 7 \end{aligned}$$

$$\begin{aligned} \text{7} \quad \frac{3}{2x} \times \frac{x}{15} \\ = \frac{1}{10} \end{aligned}$$

$$\begin{aligned} \text{8} \quad \frac{2x+4}{18} \times \frac{3}{5} \\ = \frac{x+2}{15} \end{aligned}$$

$$\begin{aligned} \text{9} \quad \frac{x}{4} \times \frac{16}{9x} \\ = \frac{4}{9} \end{aligned}$$

$$\begin{aligned} \text{10} \quad \frac{6x}{3} \times \frac{7}{4x} \\ = 3\frac{1}{2} \end{aligned}$$

$$\begin{aligned} \text{11} \quad \frac{2x}{x+5} \times \frac{3x+15}{4} \\ = \frac{3x}{2} \end{aligned}$$

$$\begin{aligned} \text{12} \quad \frac{x}{x-4} \times \frac{2x-8}{3} \\ = \frac{2x}{3} \end{aligned}$$