Fill In The Blanks…

**Multiplying Algebraic Fractions**

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| --- | --- | --- | --- |
| **Question** | **Write as a Single Fraction** | **Simplify Numerator and Denominator** | **Simplified Answer**(where possible) |
| $$\frac{x}{4}×\frac{2x}{3}$$ | $$\frac{x×2x}{4×3}$$ | $$\frac{2x^{2}}{12}$$ | $$\frac{x^{2}}{6}$$ |
| $$\frac{x}{6}×\frac{4y}{5}$$ | $$\frac{x×4y}{6×5}$$ | $$\frac{4xy}{30}$$ |  |
| $$\frac{2}{x}×\frac{3xy}{5}$$ | $$\frac{2×3xy}{x×5}$$ |  |  |
| $$\frac{4x}{3y}×\frac{2y}{x}$$ |  |  |  |
| $$\frac{2}{7x}×\frac{3xy}{4}$$ |  |  |  |
| $$\frac{x^{2}}{8}×\frac{4y}{x}$$ |  |  |  |
| $$\frac{2y}{x}×\frac{9x^{2}y}{4}$$ |  |  |  |
| $$\frac{10y}{x^{2}}×\frac{3xy^{2}}{5}$$ |  |  |  |
| $$\frac{4yz}{3}×\frac{x^{2}}{6y^{3}}$$ |  |  |  |
| $$\frac{2x^{3}}{15yz}×\frac{5x^{2}y^{2}}{z^{3}}$$ |  |  |  |
|  |  | $$\frac{24x^{3}y}{15y^{2}}$$ |  |
|  |  |  | $$\frac{6x^{3}y}{25z}$$ |