Fill In The Blanks…

**Dividing Algebraic Fractions**

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Write as a Multiplication** | **Simplify Numerator and Denominator** | **Simplified Answer**(where possible) |
| $$\frac{x}{4}÷\frac{x}{2y}$$ | $$\frac{x}{4}×\frac{2y}{x}$$ | $$\frac{2xy}{4x}$$ | $$\frac{y}{2}$$ |
| $$\frac{3x}{y}÷\frac{1}{xy}$$ | $$\frac{3x}{y}×\frac{xy}{1}$$ | $$\frac{3x^{2}y}{y}$$ |  |
| $$\frac{2y}{3}÷\frac{4}{y}$$ | $$\frac{2y}{3}×\frac{y}{4}$$ |  |  |
| $$\frac{xy}{5}÷\frac{3y}{10}$$ |  |  |  |
| $$\frac{4y}{3x}÷\frac{xy}{6}$$ |  |  |  |
| $$\frac{x^{2}}{8}÷\frac{3x}{4y}$$ |  |  |  |
| $$\frac{6xy}{5}÷\frac{x}{y}$$ |  |  |  |
| $$\frac{5x}{3}÷\frac{10}{xy}$$ |  |  |  |
| $$\frac{2x}{y}÷\frac{4xy}{9}$$ |  |  |  |
| $$\frac{4}{5xy}÷\frac{2y^{2}}{x^{2}}$$ |  |  |  |
|  |  | $$\frac{6xy^{2}}{8y}$$ |  |
|  |  |  | $$10y$$ |