Fill In The Blanks…

**Simplifying Algebraic Fractions**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Question** | **Write Each Term Separately**  | **Simplify Each Variable**  | **Answer** |  | **Question** | **Write Each Term Separately**  | **Simplify Each Variable**  | **Answer** |
| $$\frac{10a^{2}}{2a}$$ | $$\frac{10×a^{2}}{2×a}$$ | $$ 5×a$$ | $$5a$$ |  | $$\frac{4a^{7}}{2a^{3}}$$ | $$\frac{ 4×a^{7}}{ 2×a^{3}}$$ | $$ 2×a^{4}$$ |  |
| $$\frac{9b}{3b}$$ | $$\frac{ 9×b}{ 3×b}$$ |  |  |  | $$\frac{16b^{5}}{2b^{2}}$$ |  |  |  |
| $$\frac{2a}{4b}$$ | $$\frac{ 2×a}{ 4×b}$$ |  |  |  | $$\frac{2a^{9}}{10a^{2}}$$ |  |  |  |
| $$\frac{12a^{3}}{3a}$$ |  |  |  |  | $$\frac{5a^{6}}{2a}$$ |  |  |  |
| $$\frac{5ab}{a}$$ |  |  |  |  | $$\frac{25ab^{7}}{5b^{2}}$$ | $$\frac{ 25×a×b^{7}}{ 5×b^{2}}$$ |  |  |
| $$\frac{15a^{2}}{5ab}$$ |  |  |  |  | $$\frac{14a^{4}b^{8}}{2a^{3}b^{6}}$$ |  |  |  |
| $$\frac{24ab}{4bc}$$ | $$\frac{ 24×a×b}{ 4×b×c}$$ |  |  |  | $$\frac{9ab^{5}}{3a^{2}b^{3}}$$ |  |  |  |
| $$\frac{6ab^{2}}{3a^{2}b}$$ |  |  |  |  | $$\frac{15a^{4}b}{25a^{2}b^{2}}$$ |  |  |  |