

## Complex Fractions

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**Simplify each expression.**

$$1) \frac{\frac{5}{9}}{\frac{9}{2} + \frac{1}{2}}$$

$$2) \frac{\frac{9}{5}}{\frac{2}{25} + \frac{4}{25}}$$

$$3) \frac{\frac{5}{16} + \frac{16}{15}}{15}$$

$$4) \frac{\frac{4}{9}}{\frac{2}{25} - \frac{2}{3}}$$

$$5) \frac{\frac{25}{9}}{\frac{1}{5} - \frac{25}{4}}$$

$$6) \frac{\frac{3}{x} - \frac{4}{x}}{\frac{x}{3}}$$

$$7) \frac{6m}{\frac{1}{2} - \frac{1}{m}}$$

$$8) \frac{\frac{2}{a+3}}{\frac{a+3}{2a} - \frac{2}{a+3}}$$

$$9) \frac{\frac{m^2}{16} - \frac{m}{24}}{m^2}$$

$$10) \frac{\frac{1}{x} + \frac{x}{2}}{x}$$

$$11) \frac{\frac{4}{x^2} + \frac{1}{x}}{6}$$

$$12) \frac{\frac{4}{m^2} + \frac{3}{2}}{\frac{6}{m}}$$

$$13) \frac{\frac{5}{x^2} - \frac{x-2}{x}}{\frac{x-2}{25}}$$

$$14) \frac{\frac{4}{a} + \frac{3}{2}}{\frac{a^2}{36}}$$

$$15) \frac{u-4}{\frac{u-4}{16} - \frac{u-4}{u^2}}$$

$$16) \frac{\frac{3}{4} - \frac{m-6}{25}}{\frac{3}{4} + \frac{2}{3}}$$

$$17) \frac{\frac{20}{x} - \frac{6x}{25}}{\frac{1}{4} + \frac{4}{x}}$$

$$18) \frac{\frac{3}{2} - \frac{a}{36}}{\frac{1}{a} - \frac{a}{6}}$$

$$19) \frac{\frac{m}{m+2} - \frac{m+2}{m^2}}{\frac{m+2}{25} + \frac{5}{m^2+2m}}$$

$$20) \frac{\frac{1}{a} - \frac{1}{8}}{\frac{9}{16} - \frac{1}{8}}$$