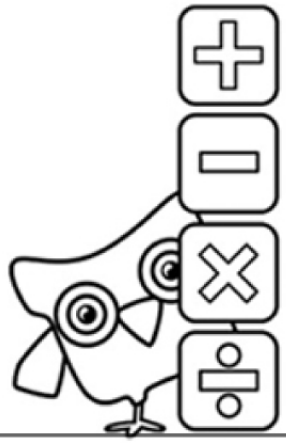
NAME : _____

MATH MONKS



Simplifying Complex Fractions Worksheet

Simplify each complex fraction.

① $\dfrac{\frac{v^2}{4}}{\frac{v}{x+4}} =$	② $\dfrac{\frac{x}{8}-\frac{4}{x^2}}{8} =$
③ $\dfrac{y}{\frac{3}{y}+\frac{1}{y}} \equiv$	④ $\dfrac{\frac{25}{12}+\frac{x+1}{4}}{\frac{1}{18}+\frac{x+1}{36}} =$
⑤ $\dfrac{\frac{q^2}{p}+\frac{2}{p}}{\frac{2pq}{p}} =$	⑥ $\dfrac{y}{\frac{3}{4}-\frac{3}{2}} =$
⑦ $\dfrac{9}{\frac{2}{p}+\frac{2}{3m}} =$	⑧ $\dfrac{\frac{c}{2b}}{\frac{b^2}{c^2}+\frac{b}{2}} =$

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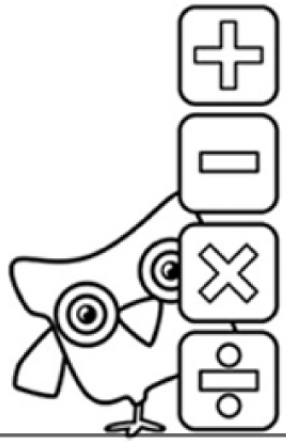

Simplifying Complex Fractions Worksheet

Answers

① $\dfrac{\frac{v^2}{4}}{\frac{v}{x+4}} = \dfrac{v(x+4)}{4}$	② $\dfrac{\frac{x}{8}-\frac{4}{x^2}}{8} = \dfrac{x^3-32}{64x^2}$
③ $\dfrac{y}{\frac{3}{y}+\frac{1}{y}} \equiv \dfrac{y^2}{4}$	④ $\dfrac{\frac{25}{12}+\frac{x+1}{4}}{\frac{1}{18}+\frac{x+1}{36}} = \dfrac{28+3x}{3+x}$
⑤ $\dfrac{\frac{q^2}{p}+\frac{2}{p}}{\frac{2pq}{p}} = \dfrac{q^2+2}{2pq}$	⑥ $\dfrac{y}{\frac{3}{4}-\frac{3}{2}} = -\dfrac{4y}{3}$
⑦ $\dfrac{9}{\frac{2}{p}+\frac{2}{3m}} = \dfrac{27pm}{6m+2p}$	⑧ $\dfrac{\frac{c}{2b}}{\frac{b^2}{c^2}+\frac{b}{2}} = \dfrac{2c^3}{4b^3+2b^2c^2}$