Fill in the Blanks — More Inverse Proportion

General Statement	General Equation	Table of Values	Value of k	Specific Equation
$y \propto \frac{1}{x^2}$	$y = \frac{k}{x^2}$	x: 1, 2, 5 y: 100, 25, 4	$k = 100$	$y = \frac{100}{x^2}$
$y \propto \frac{1}{\sqrt{x}}$	$y = \frac{k}{\sqrt{x}}$	x: 1, 4, 25 y: 10, 5, 2	$k = 10$	$y = \frac{10}{\sqrt{x}}$
$y \propto \frac{1}{x^3}$	$y = \frac{k}{x^3}$	x: 1, 2, 10 y: 1000, 125, 1	$k = 1000$	$y = \frac{1000}{x^3}$
$y \propto \frac{1}{\sqrt[3]{x}}$	$y = \frac{k}{\sqrt[3]{x}}$	x: 1, 8, 125 y: 40, 20, 8	$k = 40$	$y = \frac{40}{\sqrt[3]{x}}$
$y \propto \frac{1}{x}$	$y = \frac{k}{x}$	x: 1, 4, 10 y: 30, 7.5, 3	$k = 30$	$y = \frac{30}{x}$
$y \propto \frac{1}{x^2}$	$y = \frac{k}{x^2}$	x: 1, 2, 5 y: 3, 0.75, 0.12	$k = 3$	$y = \frac{3}{x^2}$
$y \propto \frac{1}{\sqrt{x}}$	$y = \frac{k}{\sqrt{x}}$	x: 1, 4, 25 y: $\frac{1}{6}$, $\frac{1}{12}$, $\frac{1}{30}$	$k = \frac{1}{6}$	$y = \frac{1}{6\sqrt{x}}$
$y \propto \frac{1}{x^3}$	$y = \frac{k}{x^3}$	x: 1, $\sqrt{3}$, 2 y: $\sqrt{3}$, 3, $\frac{\sqrt{3}}{8}$	$k = \sqrt{3}$	$y = \frac{\sqrt{3}}{x^3}$
$y \propto \frac{1}{x^2}$	$y = \frac{k}{x^2}$	x: 0.5, 2, 4 y: $4a$, $\frac{a}{4}$, $\frac{a}{16}$	$k = a$	$y = \frac{a}{x^2}$