

Proportion with Algebra *ramp up*

a $y \propto x$ and $y = 14$ when $x = 4$. Write y in terms of x . _____	b y is inversely proportional to x . $y = 9$ when $x = 4$. Write y in terms of x . _____	c y is inversely proportional to x . $y = 9$ when $x = 4$. Find x when $y = 12$. _____	d $y \propto \frac{1}{x}$. x is doubled. What is y multiplied by? _____
e y is proportional to x^2 . $y = 12$ when $x = 2$. Write y in terms of x . _____	f $y \propto x^2$ and $y = 12$ when $x = 2$. Find y when $x = -4$. _____	g $y \propto x^2$ and $y = 5$ when $x = 2$. Write y in terms of x . _____	h $y \propto x^3$ and $y = 54$ when $x = 3$. Find y when $x = 2$. _____
i $y \propto \sqrt{x}$ and $y = 10$ when $x = 4$. Find x when $y = 30$. _____	j y is inversely proportional to x^2 . $y = 2$ when $x = 3$. Find y when $x = 6$. _____	k $y \propto \frac{1}{x^2}$ and $y = 4$ when $x = 3$. x is positive. Find x when $y = 1$. _____	l $y \propto \frac{1}{x^2}$. x is halved. What is y multiplied by? _____

The Maths Habit

Proportion with Algebra *ramp up*

a $y \propto x$ and $y = 14$ when $x = 4$. Write y in terms of x . _____	b y is inversely proportional to x . $y = 9$ when $x = 4$. Write y in terms of x . _____	c y is inversely proportional to x . $y = 9$ when $x = 4$. Find x when $y = 12$. _____	d $y \propto \frac{1}{x}$. x is doubled. What is y multiplied by? _____
e y is proportional to x^2 . $y = 12$ when $x = 2$. Write y in terms of x . _____	f $y \propto x^2$ and $y = 12$ when $x = 2$. Find y when $x = -4$. _____	g $y \propto x^2$ and $y = 5$ when $x = 2$. Write y in terms of x . _____	h $y \propto x^3$ and $y = 54$ when $x = 3$. Find y when $x = 2$. _____
i $y \propto \sqrt{x}$ and $y = 10$ when $x = 4$. Find x when $y = 30$. _____	j y is inversely proportional to x^2 . $y = 2$ when $x = 3$. Find y when $x = 6$. _____	k $y \propto \frac{1}{x^2}$ and $y = 4$ when $x = 3$. x is positive. Find x when $y = 1$. _____	l $y \propto \frac{1}{x^2}$. x is halved. What is y multiplied by? _____

The Maths Habit