Rearranging formulae: powers and roots

lesson handout

The Maths Habit

Part 1: We do

Make x the subject of $p = x^2 - 7$

$p = x^2 - 7$ ____

____ = ____ ____

____ = ____

x = ____

Part 1: You do

Make x the subject of $a = 3x^2$

$a = 3x^2$ ____

____ = ____ ____

____ = ____

x = ____

Part 1: You do

Make x the subject of $m = \frac{x^2}{2}$

$m = \frac{x^2}{2}$ ____

____ = ____ ____

____ = ____

x = ____

Part 2: We do

Make x the subject of $p = 5x^2 - 4$

$p = 5x^2 - 4$ ____

____ = ____ ____

____ = ____ ____

____ = ____

x = ____

Part 2: You do

Make x the subject of $k = \frac{x^2}{3} + 1$

$k = \frac{x^2}{3} + 1$ ____

____ = ____ ____

____ = ____ ____

x = ____

Part 2: You do

Make x the subject of $y = 4x^2 - 9$.
Then find x when $y = 27$.

$y = 4x^2 - 9$ ____

____ = ____ ____

____ = ____ ____

x = ____

____

Part 3: We do

Make x the subject of $p = \sqrt{x} - 3$

$p = \sqrt{x} - 3$ ____

____ = ____ ____

____ = ____

x = ____

Part 3: You do

Make x the subject of $k = 5\sqrt{x}$

$k = 5\sqrt{x}$ ____

____ = ____ ____

x = ____

Part 3: You do

Make x the subject of $t = \sqrt{x + 3}$

$t = \sqrt{x + 3}$ ____

____ = ____ ____

x = ____