National 5 & Int. 2 — Subject of Formula

2018 P1 Q14	Change the subject of the formula $y = g\sqrt{x} + h$ to x.	3
Ans	$x = \left(\frac{y - h}{g}\right)^2$	
2017 P1 Q10	Change the subject of the formula $F = \frac{t^2 + 4b}{c}$ to b.	3
Ans	$b = \frac{Fc - t^2}{4}$	
2016 P2 Q12	Change the subject of the formula $L = \sqrt{4kt - p}$ to k.	3
Ans	$k = \frac{L^2 + p}{4t}$	
2015 P2 Q6	Change the subject of the formula $A = \frac{1}{2}(b+c)d$ to b.	3
Ans	$b = \frac{2A}{d} - c$ or $b = \frac{2A - cd}{d}$	
2014 P2 Q11	Change the subject of the formula $s = ut + \frac{1}{2}at^2$ to a.	3
Ans	$a = \frac{2(s - ut)}{t^2}$	
2014 P2 Q7	Change the subject of the formula $p = \frac{qr^2}{3}$ to r.	3

Ans	$r = \sqrt{\frac{3p}{q}}$	
2013 P2 Q8	Change the subject of the formula $a = 3b^2 + c$ to b.	3
Ans	$b = \sqrt{\frac{a - c}{3}}$	
2012 P2 Q9	A formula used to calculate lighting efficiency is $E = \frac{I}{D^2}$. Change the subject of this formula to D.	3
Ans	$D = \sqrt{\frac{I}{E}}$	
2011 P2 Q3	Change the subject of the formula $A = 4\pi r^2$ to r.	2
Ans	$r = \sqrt{\frac{A}{4p}}$	
2010 P2 Q7	Change the subject of the formula $P = 2(L + B)$ to L.	2
Ans	$L = \frac{P - 2B}{2}$	
2009 P2 Q9	Change the subject of the formula $A = \frac{1}{2}h(a + b)$ to h.	2
Ans	$h = \frac{2A}{a + b}$	

2008 P2 Q10	Change the subject of the formula $p = q + \sqrt{a}$ to a.	2
Ans	$a = (p - q)^2$	
2007 P2 Q11	Change the subject of the formula $K = \frac{m^2 n}{p}$ to m.	3
Ans	$\sqrt{\frac{Kp}{n}}$	
2006 P2 Q9	Change the subject of the formula $\frac{x}{c} + a = b$ to x.	2
Ans	$x = c(b - a)$	
2005 P2 Q10c	Change the subject of the formula $p = q + 2r^2$ to r.	3
Ans	$r = \sqrt{\frac{p - q}{2}}$	
2004 P2 Q11b	Change the subject of the formula $m = \frac{3x + 2y}{p}$ to x.	3
Ans	$x = \frac{mp - 2y}{3}$	
2003 P2 Q7	Change the subject of the formula $y = ax^2 + c$ to x.	3
Ans	$x = \sqrt{\frac{y - c}{a}}$	
2002W P2 Q1	Change the subject of the formula $x = y^2 - m$ to y.	2
Ans	$y = \sqrt{x + m}$	

2002 P2 Q11b	Change the subject of the formula $r = 3p + 2t$ to p.	2
Ans	$p = \frac{r - 2t}{3}$	
2001 P1 Q4	$P = R^2b - 5$ Change the subject of the formula to R.	3
Ans	$R = \sqrt{\frac{P + 5}{b}}$	