Rearranging Formulae *fluency*

Make *x* the subject

1 $y = x^2 + 5$

2 $a = 3x^2$

3 $p = x^2 - q$

4 $y = \frac{x^2}{4}$

5 $k = 2x^2 - 7$

6 $t = x^3 + c$

Make *x* the subject

7 $y = \sqrt{x} + 3$

8 $a = 4\sqrt{x}$

9 $p = \sqrt{x + q}$

10 $y = \sqrt{2x - 5}$

11 $k = \sqrt{\frac{x}{3}}$

12 $t = 2\sqrt{x} - c$

Make *x* the subject

13 $y = (x + 3)^2$

14 $a = (x - c)^2$

15 $y = 2(x - 1)^2$

16 $p = (x + q)^2 - r$

17 $k = 3(x + 4)^2 + 1$

18 $t = \frac{(x - 5)^2}{2}$

Make *x* the subject

19 $y = \frac{5}{x^2}$

20 $k = \frac{2}{\sqrt{x}}$

21 $a = \frac{c}{x^2} + 1$

22 $m = \frac{6}{x^3}$

23 $t = \frac{k}{\sqrt{x + 1}}$

24 $y = \frac{1}{x^2} + a$

Make *x* the subject

25 $y = \frac{x^2 + a}{b}$

26 $a = \sqrt{\frac{x - 3}{c}}$

27 $p = \frac{2x^2}{q} - r$

28 $y = 3 - \sqrt{2x}$

29 $k = \frac{(x + 1)^2}{m}$

30 $t = a\sqrt{x^2 + b}$