

Solving Equations with Brackets

Question 1 – Complete these to test the waters!

a) $2(y + 2) = 8$

b) $3(a + 2) = 12$

c) $4(x - 4) = 40$

d) $5(c - 3) = 35$

e) $7(3 + a) = 49$

f) $(-2 + x) = 36$

g) $6(6 + p) = 48$

h) $9(x + 4) = 18$

i) $4(a + 6) = 4$

j) $8(3 + m) = 8$

Question 2 – More practice? Work here

a) $2(4x + 8) = 32$

b) $5(7x - 4) = 15$

c) $5(5x - 3) = 35$

d) $4(6x + 3) = 36$

e) $7(2x - 7) = 7$

f) $6(2x - 3) = 42$

Question 3 – Need a bigger challenge? Go!

a) $3(2x + 1) + 2(4x + 2) = 35$

b) $2(x + 3) + 3(x + 1) = 24$

c) $4(3x - 2) + 8(x + 1) = 100$

d) $6(x + 2) + 4(3 - x) = 30$

$$e) 5(2x + 3) + 2(5x + 1) = 37$$

Question 4 – The Big Time – These are tough!

$$a) 2(3x + 1) - 3(x + 2) = 2$$

$$b) 5(2x + 3) - 3(3x - 2) = 22$$

$$c) 4(2x - 3) + 2(x - 4) = 10$$

$$d) 3(4x - 2) + 5(x - 1) = 23$$

$$e) 8(2x - 1) - 3(5x - 3) = 1$$

Solving Equations With Brackets – Answers

Question 1

a) $y = 2$ b) $a = 2$ c) $x = 14$ d) $c = 10$ e) $a = 4$ f) $x = 8$

g) $p = 2$ h) $x = -2$ i) $a = -5$ j) $m = -2$

Question 2

a) $x = 2$ b) $x = 1$ c) $x = 2$ d) $x = 1$ e) $x = 4$ f) $x = 5$

Question 3

a) $x = 2$ b) $x = 3$ c) $x = 5$ d) $x = 3$ e) $x = 1$

Question 4

a) $x = 2$ b) $x = 1$ c) $x = 3$ d) $x = 2$ e) $x = 0$