

Equations with Two Brackets.

Date:

Name:

Solve each equation below for the given variable. Show all working!

[1] $4(6e - 3) = 3(2e - 4)$	[2] $5(4 - 4) = 5(3j + 2)$	[3] $4(4p - 1) = 4(2p - 1)$
[4] $6(5f - 5) = 5(2f + 2)$	[5] $2(4y + 4) = 2(6y + 4)$	[6] $2(5p + 4) = 6(2p - 4)$
[7] $4(3c + 4) = 4(2c + 5)$	[8] $4(3e + 3) = 6(4e - 4)$	[9] $5(2v - 1) = 5(5v - 1)$
[10] $4(3x - 3) = 3(3x - 3)$	[11] $5(5b + 2) = 5(4b + 5)$	[12] $5(5y - 2) = 2(2y - 5)$

ANSWERS

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<p>[1] $4(6e - 3) = 3(2e - 4)$ $24e - 12 = 6e - 12$ $-6e$ $18e - 12 = -12$ $+12$ $18e = 0$ $\frac{18e}{18} = \frac{0}{18}$ $e = 0$</p>	<p>[2] $5(4j - 4) = 5(3j + 2)$ $20j - 20 = 15j + 10$ $-15j$ $5j - 20 = 10$ $+20$ $5j = 30$ $\frac{5j}{5} = \frac{30}{5}$ $j = 6$</p>	<p>[3] $4(4p - 1) = 4(2p - 1)$ $16p - 4 = 8p - 4$ $-8p$ $8p - 4 = -4$ $+4$ $8p = 0$ $\frac{8p}{8} = \frac{0}{8}$ $p = 0$</p>
<p>[4] $6(5f - 5) = 5(2f + 2)$ $30f - 30 = 10f + 10$ $-10f$ $20f - 30 = 10$ $+30$ $20f = 40$ $\frac{20f}{20} = \frac{40}{20}$ $f = 2$</p>	<p>[5] $2(4y + 4) = 2(6y + 4)$ $8y + 8 = 12y + 8$ $-8y$ $-8 = 4y + 8$ -8 $0 = 4y + 8$ -8 $0 = 4y$ $y = 0$</p>	<p>[6] $2(5p + 4) = 6(2p - 4)$ $10p + 8 = 12p - 24$ $-10p$ $8 = 2p - 24$ $+24$ $32 = 2p$ $\frac{32}{2} = \frac{2p}{2}$ $16 = p$ $p = 16$</p>
<p>[7] $4(3c + 4) = 4(2c + 5)$ $12c + 16 = 8c + 20$ $-8c$ $4c + 16 = 20$ -16 $4c = 4$ $\frac{4c}{4} = \frac{4}{4}$ $c = 1$</p>	<p>[8] $4(3e + 3) = 6(4e - 4)$ $12e + 12 = 24e - 24$ $-12e$ $12 = 12e - 24$ $+24$ $36 = 12e$ $\frac{36}{12} = \frac{12e}{12}$ $3 = e$ $e = 3$</p>	<p>[9] $5(2v - 1) = 5(5v - 1)$ $10v - 5 = 25v - 5$ $-10v$ $-5 = 15v - 5$ $+5$ $0 = 15v$ $\frac{0}{15} = \frac{15v}{15}$ $0 = v$ $v = 0$</p>
<p>[10] $4(3x - 3) = 3(3x - 3)$ $12x - 12 = 9x - 9$ $-9x$ $3x - 12 = -9$ $+12$ $3x = 3$ $\frac{3x}{3} = \frac{3}{3}$ $x = 1$</p>	<p>[11] $5(5b + 2) = 5(4b + 5)$ $25b + 10 = 20b + 25$ $-20b$ $5b + 10 = 25$ -10 $5b = 15$ $\frac{5b}{5} = \frac{15}{5}$ $b = 3$</p>	<p>[12] $5(5y - 2) = 2(2y - 5)$ $25y - 10 = 4y - 10$ $-4y$ $21y - 10 = -10$ $+10$ $21y = 0$ $\frac{21y}{21} = \frac{0}{21}$ $y = 0$</p>