



## EXPAND THE EXPRESSION 6:1

Use the distributive property to work out which of the 4 options is equivalent to the expression.

EXPRESSION		IS EQUIVALENT TO			
		A	B	C	D
Example:	$2(x + 5)$	$2x + 5$	$2x + 10$	$10x$	$2x + 7$
1)	$3(a + 1)$	$3a + 3$	$6a$	$3a + 1$	$3a + 6$
2)	$2(b - 4)$	$2b - 4$	$8 - 2b$	$2b - 8$	$2b - 6$
3)	$5(c + 3c)$	$5c + 8$	$5c + 15$	$9c$	$20c$
4)	$2(2d - 1)$	$4d - 2$	$2d - 2$	$2d$	$2d - 4$
5)	$3(e + 20)$	$3e + 23$	$60e$	$e + 60$	$3e + 60$
6)	$4(2f - 3)$	$4f - 12$	$8f - 12$	$8f - 7$	$2f - 7$
7)	$2(3g + 12)$	$6g + 24$	$5g + 14$	$6g + 12$	$5g + 24$
8)	$3(7 + h)$	$3h + 21$	$21h + 3$	$10 + 3h$	$21 + h$
9)	$7(5 - i)$	$7i - 35$	$12 - 7i$	$7i - 12$	$35 - 7i$
10)	$6(10 - j)$	$6j - 60$	$16 - 6j$	$60 - 6j$	$54j$
11)	$4(2k + 7)$	$6k + 11$	$8k + 28$	$6k + 28$	$8k + 11$
12)	$2(l + m)$	$2l + m$	$l + 2m$	$2lm$	$2l + 2m$
13)	$3(n - p)$	$3n - 3p$	$3n - p$	$3n/p$	$n - 3p$
14)	$\frac{1}{2}(q - 6)$	$\frac{1}{2}q - 6$	$1\frac{1}{2}q$	$\frac{1}{2}q - 3$	$q - 3$
15)	$\frac{1}{2}(2r + 4r)$	$r + 4$	$\frac{1}{2}r + 2$	$r + 2$	$3r$
16)	$2(2s + t)$	$2s + 2t$	$4s + 4t$	$4s + 2t$	$2s + 4t$
17)	$6(3 - 2u)$	$12u - 18$	$18 - 12u$	$9 - 8u$	$18 - 6u$
18)	$4(v + 2w)$	$4v + 4w$	$8v + 8w$	$12vw$	$4v + 8w$
19)	$3(2x - y)$	$6x + 3y$	$6x - 3y$	$3y - 6x$	$6xy$
20)	$\frac{1}{2}(10 - z)$	$5 - \frac{1}{2}z$	$5 - z$	$10 - \frac{1}{2}z$	$\frac{1}{2}z - 5$



## EXPAND THE EXPRESSION 6:1 ANSWERS

Use the distributive property to work out which of the 4 options is equivalent to the expression.

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		A	B	C	D
Example:	$2(x + 5)$	$2x + 5$	<b><math>2x + 10</math></b>	$10x$	$2x + 7$
1)	$3(a + 1)$	<b><math>3a + 3</math></b>	$6a$	$3a + 1$	$3a + 6$
2)	$2(b - 4)$	$2b - 4$	$8 - 2b$	<b><math>2b - 8</math></b>	$2b - 6$
3)	$5(c + 3c)$	$5c + 8$	$5c + 15$	$9c$	<b><math>20c</math></b>
4)	$2(2d - 1)$	<b><math>4d - 2</math></b>	$2d - 2$	$2d$	$2d - 4$
5)	$3(e + 20)$	$3e + 23$	$60e$	$e + 60$	<b><math>3e + 60</math></b>
6)	$4(2f - 3)$	$4f - 12$	<b><math>8f - 12</math></b>	$8f - 7$	$2f - 7$
7)	$2(3g + 12)$	<b><math>6g + 24</math></b>	$5g + 14$	$6g + 12$	$5g + 24$
8)	$3(7 + h)$	<b><math>3h + 21</math></b>	$21h + 3$	$10 + 3h$	$21 + h$
9)	$7(5 - i)$	$7i - 35$	$12 - 7i$	$7i - 12$	<b><math>35 - 7i</math></b>
10)	$6(10 - j)$	$6j - 60$	$16 - 6j$	<b><math>60 - 6j</math></b>	$54j$
11)	$4(2k + 7)$	$6k + 11$	<b><math>8k + 28</math></b>	$6k + 28$	$8k + 11$
12)	$2(l + m)$	$2l + m$	$l + 2m$	$2lm$	<b><math>2l + 2m</math></b>
13)	$3(n - p)$	<b><math>3n - 3p</math></b>	$3n - p$	$3n/p$	$n - 3p$
14)	$\frac{1}{2}(q - 6)$	$\frac{1}{2}q - 6$	$1\frac{1}{2}q$	<b><math>\frac{1}{2}q - 3</math></b>	$q - 3$
15)	$\frac{1}{2}(2r + 4r)$	$r + 4$	$\frac{1}{2}r + 2$	$r + 2$	<b><math>3r</math></b>
16)	$2(2s + t)$	$2s + 2t$	$4s + 4t$	<b><math>4s + 2t</math></b>	$2s + 4t$
17)	$6(3 - 2u)$	$12u - 18$	<b><math>18 - 12u</math></b>	$9 - 8u$	$18 - 6u$
18)	$4(v + 2w)$	$4v + 4w$	$8v + 8w$	$12vw$	<b><math>4v + 8w</math></b>
19)	$3(2x - y)$	$6x + 3y$	<b><math>6x - 3y</math></b>	$3y - 6x$	$6xy$
20)	$\frac{1}{2}(10 - z)$	<b><math>5 - \frac{1}{2}z</math></b>	$5 - z$	$10 - \frac{1}{2}z$	$\frac{1}{2}z - 5$