

Name

Date



FACTORIZE THE EXPRESSION 6:2

Use the distributive property to factorize these expressions – try to use the greatest common divisor where possible.

EXPRESSION	FACTORIZED EXPRESSION
<i>Example:</i> $6x + 12$	$6(x + 2)$
1) $3a + 15$	
2) $2b + 30$	
3) $6c - 18$	
4) $5d - 45$	
5) $30 - 3e$	
6) $28 - 7f$	
7) $12g + 20$	
8) $14h - 21$	
9) $15i + 24$	
10) $32 - 12j$	
11) $14k - 10$	
12) $16l + 10$	
13) $5m + 15n$	
14) $10p - 12q$	
15) $20r + 16s$	
16) $24 - 18t$	
17) $12u + 15v$	
18) $32w + 18$	
19) $40 - 28x$	
20) $18y + 36z$	



EXPAND THE EXPRESSION 6:2 ANSWERS

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

EXPRESSION	FACTORIZED EXPRESSION
<i>Example:</i> $6x + 12$	$6(x + 2)$
1) $3a + 15$	$3(a + 5)$
2) $2b + 30$	$2(b + 15)$
3) $6c - 18$	$6(c - 3)$
4) $5d - 45$	$5(d - 9)$
5) $30 - 3e$	$3(10 - e)$
6) $28 - 7f$	$7(4 - f)$
7) $12g + 20$	$4(3g + 5)$
8) $14h - 21$	$7(2h - 3)$
9) $15i + 24$	$3(5i + 8)$
10) $32 - 12j$	$4(8 - 3j)$
11) $14k - 10$	$2(7k - 5)$
12) $16l + 10$	$2(8l + 5)$
13) $5m + 15n$	$5(m + 3n)$
14) $10p - 12q$	$2(5p - 6q)$
15) $20r + 16s$	$4(5r + 4s)$
16) $24 - 18t$	$6(4 - 3t)$
17) $12u + 15v$	$3(4u + 5v)$
18) $32w + 18$	$2(16w + 9)$
19) $40 - 28x$	$4(10 - 7x)$
20) $18y + 36z$	$18(y + 2z)$