

Name

Date



DISTRIBUTIVE PROPERTY MIXED QUESTIONS 6:1

Use the distributive property to work out the answers to these questions.

EXPRESSION	ANSWER
1) Factorize $5a + 15$	
2) Expand $4(2b - 3)$	
3) Work out the value of $3(2c - 7)$ when $c=5$.	
4) Work out the value of $4(2^2 - 3)$	
5) Factorize $12 - 3d$	
6) Expand $6(2e + 5)$	
7) Work out the value of $9(12 - f)$ when $f=8$	
8) Factorize $14g - 21$	
9) Expand $6(12h - 3h)$	
10) Work out the value of $4(3i - 6)$ when $i=6$	
11) Work out the value of $12(15 - 3^2)$	
12) Factorize $24 - 15j$	
13) Expand $7(3 - 4k)$	
14) Work out the value of $8(15 - l)$ when $l=9$	
15) Factorize $25m + 35$	
16) Find the value of $6(3 + 5) \div 4$	
17) Expand $\frac{1}{2}(6n - 14)$	
18) Work out the value of $7(2 - p)$ when $p=0$	
19) Factorize $24q + 16r$	
20) Expand $7(2s - 3t)$	

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DISTRIBUTIVE PROPERTY MIXED QUESTIONS 6:1 ANSWERS

EXPRESSION	ANSWER
1) Factorize $5a + 15$	$5(a + 3)$
2) Expand $4(2b - 3)$	$8b - 12$
3) Work out the value of $3(2c - 7)$ when $c=5$.	$3(10 - 7) = 9$
4) Work out the value of $4(2^2 - 3)$	$4(4 - 3) = 4$
5) Factorize $12 - 3d$	$3(4 - d)$
6) Expand $6(2e + 5)$	$12e + 30$
7) Work out the value of $9(12 - f)$ when $f=8$	$9(12 - 8) = 36$
8) Factorize $14g - 21$	$7(2g - 3)$
9) Expand $6(12h - 3h)$	$54h$
10) Work out the value of $4(3i - 6)$ when $i=6$	$4(18 - 6) = 48$
11) Work out the value of $12(15 - 3^2)$	$12(15 - 9) = 72$
12) Factorize $24 - 15j$	$3(8 - 5j)$
13) Expand $7(3 - 4k)$	$21 - 28k$
14) Work out the value of $8(15 - l)$ when $l=9$	$8(15 - 9) = 48$
15) Factorize $25m + 35$	$5(5m + 7)$
16) Find the value of $6(3 + 5) \div 4$	$48 \div 4 = 12$
17) Expand $\frac{1}{2}(6n - 14)$	$3n - 7$
18) Work out the value of $7(2 - p)$ when $p=0$	$7 \times 2 = 14$
19) Factorize $24q + 16r$	$8(3q + 2r)$
20) Expand $7(2s - 3t)$	$14s - 21t$