

Name

Date



DISTRIBUTIVE PROPERTY MIXED QUESTIONS 6:2

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

EXPRESSION	ANSWER
1) Factorize $4a + 18$	
2) Expand $8(6 + 3b)$	
3) Work out the value of $5(3c - 2)$ when $c=4$.	
4) Work out the value of $7(3^2 - 2^2)$	
5) Factorize $55 - 10d$	
6) Expand $7(3e - 8)$	
7) Work out the value of $12(20 - f)$ when $f=17$	
8) Factorize $21g - 36$	
9) Expand $\frac{1}{2}(12 - 6h)$	
10) Work out the value of $\frac{1}{2}(3i - 6)$ when $i=4$	
11) Work out the value of $2^2(16 - 3^2)$	
12) Factorize $240 - 150j$	
13) Expand $8(40k - 25k)$	
14) Work out the value of $3(1.5 - l)$ when $l=0.6$	
15) Factorize $56m + 35$	
16) Find the value of $6(3 + 5) \div 2^2$	
17) Expand $0.3(6 - 5n)$	
18) Work out the value of $11(2 - p)$ when $p=1.2$	
19) Factorize $24q + 16r + 12s$	
20) Expand $\frac{1}{2}(6s - 9t)$	

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DISTRIBUTIVE PROPERTY MIXED QUESTIONS 6:2 ANSWERS

EXPRESSION		ANSWER	
1)	Factorize $4a + 18$	$2(2a + 9)$	
2)	Expand $8(6 + 3b)$	$48 + 24b$	
3)	Work out the value of $5(3c - 2)$ when $c=4$.	$5(12 - 2) = 50$	
4)	Work out the value of $7(3^2 - 2^2)$	$7(9 - 4) = 35$	
5)	Factorize $55 - 10d$	$5(11 - 2d)$	
6)	Expand $7(3e - 8)$	$21e - 56$	
7)	Work out the value of $12(20 - f)$ when $f=17$	$12(20 - 17) = 36$	
8)	Factorize $21g - 36$	$3(7g - 12)$	
9)	Expand $\frac{1}{2}(12 - 6h)$	$6 - 3h$	
10)	Work out the value of $\frac{1}{2}(3i - 6)$ when $i=4$	$\frac{1}{2}(12 - 6) = 3$	
11)	Work out the value of $2^2(16 - 3^2)$	$4(16 - 9) = 28$	
12)	Factorize $240 - 150j$	$30(8 - 5j)$	
13)	Expand $8(40k - 25k)$	$140k$	
14)	Work out the value of $3(1.5 - l)$ when $l=0.6$	$3(1.5 - 0.6) = 2.7$	
15)	Factorize $56m + 35$	$7(8m + 5)$	
16)	Find the value of $6(3 + 5) \div 2^2$	$6(8) \div 4 = 12$	
17)	Expand $0.3(6 - 5n)$	$1.8 - 1.5n$	
18)	Work out the value of $11(2 - p)$ when $p=1.2$	$11(2 - 1.2) = 8.8$	
19)	Factorize $24q + 16r + 12s$	$4(6q + 4r + 3s)$	
20)	Expand $\frac{1}{2}(6s - 9t)$	$3s - 4\frac{1}{2}t$	or $3s - \frac{9}{2}t$