

Name:	Class:	

Factor using the distributive property

1.	Factor the following expressions below.(write your answers as a product with a whole number (common factor greater than 1)). 54m + 63	e
2.	9a + 27b	
2.	2r + 24 a 2(4r + 24) b 2(r + 12) c (2r + 8) d 24(2r + 1)	
2.	36x + 12y + 72w a- 2 (12x + 6y + 36w) b- 3 (12x + 4y + 24w) c- 6(6x + 2y + 12w) d- 12(3x + y + 6w)	
2.	100t + 125s + 70u a- 5(20t + 25s + 14u) b- 5(500t + 625s + 350u) c- 10(10t + 12.5s + 7u) d- 2(50t + 62.5s + 35u)	
2.	841f + 2,523g + 29 a- 1(841f + 2,523g +29) b- 29fg(29 + 87 + 1fg) c- 29(29f + 87g + 1) d- fg(841 + 2,523 + 29)	





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	Factor the expressions below. (write your answers as a product with a whole
	number (common factor greater than 1))
1.	54m + 63
	Find a common factor greater than 1 of all the numbers in the expression.
	Factors of 54: 1, 2, 3, 6, 9, 18, 27, 54
	Factors of 63: 1, 3, 7, 9, 21, 63.
	3 and 9 are the common factors of 54 and 63. Pick the largest one which is 9
	Divide each number in the expression by 9.
	54m + 63
	54m = 6 63 = 7
	9 9
	Factor 9 out of 54m + 63.
	54m + 63 = 9.6m + 9.7
	Apply the distributive property.
	= 9.6m + 9.7 =9 (6m + 7)
	So, 54m + 63 = 9 (6m + 7).
	30, 341111 03 - 3 (011117).
2.	So, $9a + 27b = 9 (a + 3b)$.
	50, 50 . 270 = 5 (0 . 50).
3.	b- 2 (r + 12).
4.	d- $12(3x + y + 6w)$.
5.	a- 5(20t + 25s + 14u).
6.	c- 29(29f + 87g + 1).