Writing Equivalent Expressions Using Properties

The table below shows some common properties of operations.

Commutative Property of Addition	a + b = b + a	Commutative Property of Multiplication	$a \cdot b = b \cdot a$
Associative Property of Addition	(a + b) + c = a + (b + c)	Associative Property of Multiplication	$(a \cdot b) \cdot c = a \cdot (b \cdot c)$
Distributive Property Across Addition	$a \cdot (b + c) = a \cdot b + a \cdot c$	Distributive Property Across Subtraction	$a\cdot(b-c)=a\cdot b-a\cdot c$

Complete the equivalent expressions using the properties listed.



Use the properties of operations to write equivalent expressions.

99 + (1 + w)	3m + 2m	6(r + 3)	$4f \cdot 5$
7 <i>c</i> + (2 <i>c</i> + 8)	8 · (4 <i>b</i>)	7(3h - 10)	(3 <i>x</i> + 11) + 5 <i>x</i>

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