Distributive Property Homework Name _____

Distribute and Evaluate the Following

$4(1+7)$	Expression		$6(5-3)$	Expression		$3(5+9-3)$
_____	Distribute		_____	Distribute		_____
_____	Evaluate		_____	Evaluate		_____

$9(2x-3y)$	Expression		$5(2x+y)$	Expression		$2(8x-7)$
_____	Distribute		_____	Distribute		_____

$9(x-2y+4z)$	Expression		$4(5a-b-7c+2)$	Expression		$12(5x-3b)$
_____	Distribute		_____	Distribute		_____

$3(2x+5)+7$	Expression		$8(4x+3)-7$	Expression		$6(4+3x)-10x$
_____	Distribute		_____	Distribute		_____
	Combine Like Terms			Combine Like Terms		

Which expression is equivalent to $3(6m) + m$?

A $19m$

B $21m$

C $7m + 3$

D $18m + 6m^2$

The expression below was simplified using two properties of operations.

$5(11z + 29 + 6z)$

Step 1 $5(11z + 6z + 29)$

Step 2 $5(17z + 29)$

Step 3 $85z + 145$

Which properties were applied in Steps 1 and 3, respectively?

A commutative property, then distributive property

B commutative property, then identity property

C associative property, then distributive property

D associative property, then commutative property

Which expression is equivalent to $5(d + 1)$?

A $5d + 5$

B $5d + 1$

C $d + 5$

D $d + 6$

Distributive Property Homework Name Key

Distribute and Evaluate the Following

$4(1+7)$	Expression	$6(5-3)$	Expression	$3(5+9-3)$
$4\cdot1+4\cdot7$	Distribute	$6\cdot5-6\cdot3$	Distribute	$3\cdot5+3\cdot9-3\cdot3$
$4+28$	Evaluate	$30-18$	Evaluate	$15+27-9$
32		12		33

$9(2x-3y)$	Expression	$5(2x+y)$	Expression	$2(8x-7)$
$18x-27y$	Distribute	$10x+5y$	Distribute	$16x-14$

$9(x-2y+4z)$	Expression	$4(5a-b-7c+2)$	Expression	$12(5x-3b)$
$9x-18y+36z$	Distribute	$20a-4b-28c+8$	Distribute	$60x-36b$

$3(2x+5)+7$	Expression	$8(4x+3)-7$	Expression	$6(4+3x)-10x$
$6x+15+7$	Distribute	$32x+24-7$	Distribute	$24+18x-10x$
$6x+22$	Combine Like Terms	$32x+17$	Combine Like Terms	$24+8x$

Which expression is equivalent to $3(6m) + 1m$?

3(6m) + 1m

18m + 1m

19m

(A) $19m$

B $21m$

C $7m + 3$

D $18m + 6m^2$

The expression below was simplified using two properties of operations.

$5(11z + 29 + 6z)$

*Step 1 $5(11z + 6z + 29)$ Switched 6z and 29: Commutative Property

Step 2 $5(17z + 29)$ Combined 11z + 6z

*Step 3 $85z + 145$ Multiplied 17z and 29 by 5: Distributive Property

Which properties were applied in Steps 1 and 3, respectively?

(A) commutative property, then distributive property

B commutative property, then identity property

C associative property, then distributive property

D associative property, then commutative property

Which expression is equivalent to $5(d + 1)$?

5d + 5·1

5d + 5

(A) $5d + 5$

B $5d + 1$

C $d + 5$

D $d + 6$