

## Reasoning – Commutative Law

Do these calculations have the same answer? Write yes or no next to each calculation.

$18 + 2$ and $2 + 18$		$18 - 12$ and $12 - 18$	
$18 + 1$ and $1 + 18$		$18 - 11$ and $11 - 18$	
$18 + 3$ and $3 + 18$		$18 - 13$ and $13 - 8$	
$18 + 4$ and $4 + 18$		$18 - 14$ and $14 - 18$	
$18 + 5$ and $5 + 18$		$18 - 15$ and $15 - 18$	
$18 + 6$ and $6 + 18$		$18 - 16$ and $16 - 18$	
$18 + 9$ and $9 + 18$		$18 - 19$ and $19 - 18$	
$18 + 0$ and $0 + 18$		$18 - 10$ and $10 - 18$	
$18 + 10$ and $10 + 18$		$18 - 1$ and $1 - 18$	

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Do these calculations have the same answer? Write yes or no next to each calculation.

$18 + 2$ and $2 + 18$	yes	$18 - 12$ and $12 - 18$	no
$18 + 1$ and $1 + 18$	yes	$18 - 11$ and $11 - 18$	no
$18 + 3$ and $3 + 18$	yes	$18 - 13$ and $13 - 8$	no
$18 + 4$ and $4 + 18$	yes	$18 - 14$ and $14 - 18$	no
$18 + 5$ and $5 + 18$	yes	$18 - 15$ and $15 - 18$	no
$18 + 6$ and $6 + 18$	yes	$18 - 16$ and $16 - 18$	no
$18 + 9$ and $9 + 18$	yes	$18 - 19$ and $19 - 18$	no
$18 + 0$ and $0 + 18$	yes	$18 - 10$ and $10 - 18$	no
$18 + 10$ and $10 + 18$	yes	$18 - 1$ and $1 - 18$	no

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Do these calculations have the same answer? Write yes or no next to each calculation.

$19 + 2$ and $2 + 19$		$20 - 9$ and $9 - 20$	
$19 - 1$ and $1 - 19$		$19 + 4$ and $4 + 19$	
$19 + 3$ and $3 + 19$		$19 - 4$ and $4 - 19$	
$19 - 3$ and $3 - 19$		$19 + 6$ and $6 + 19$	
$19 + 5$ and $5 + 19$		$19 - 6$ and $6 - 19$	
$19 - 5$ and $5 - 19$		$19 + 7$ and $7 + 19$	
$19 + 8$ and $8 + 19$		$19 - 7$ and $7 - 19$	
$19 - 8$ and $8 - 19$		$19 + 0$ and $0 + 19$	
$20 + 9$ and $20 + 9$		$17 + 9$ and $9 + 17$	

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Do these calculations have the same answer? Write yes or no next to each calculation.

$19 + 2$ and $2 + 19$	yes	$20 - 9$ and $9 - 20$	no
$19 - 1$ and $1 - 19$	no	$19 + 4$ and $4 + 19$	yes
$19 + 3$ and $3 + 19$	yes	$19 - 4$ and $4 - 19$	no
$19 - 3$ and $3 - 19$	no	$19 + 6$ and $6 + 19$	yes
$19 + 5$ and $5 + 19$	yes	$19 - 6$ and $6 - 19$	no
$19 - 5$ and $5 - 19$	no	$19 + 7$ and $7 + 19$	yes
$19 + 8$ and $8 + 19$	yes	$19 - 7$ and $7 - 19$	no
$19 - 8$ and $8 - 19$	no	$19 + 0$ and $0 + 19$	yes
$20 + 9$ and $20 + 9$	yes	$17 + 9$ and $9 + 17$	yes

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Do these calculations have the same answer? Write yes or no next to each calculation.

$16 + 2$ and $2 + 16$		$16 - 9$ and $9 - 16$	
$16 - 2$ and $2 - 16$		$16 + 4$ and $4 + 16$	
$16 + 3$ and $3 + 16$		$16 - 4$ and $4 - 16$	
$16 - 3$ and $3 - 16$		$16 + 6$ and $6 + 16$	
$16 + 5$ and $5 + 16$		$16 - 16$ and $16 - 16$	
$16 - 5$ and $5 - 16$		$16 + 7$ and $7 + 16$	
$16 + 8$ and $8 + 16$		$16 - 7$ and $7 - 16$	
$16 - 8$ and $8 - 16$		$16 + 0$ and $0 + 16$	
$16 + 9$ and $9 + 16$		$15 + 9$ and $9 + 15$	

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Do these calculations have the same answer? Write yes or no next to each calculation.

$16 + 2$ and $2 + 16$	yes	$16 - 9$ and $9 - 16$	no
$16 - 2$ and $2 - 16$	no	$16 + 4$ and $4 + 16$	yes
$16 + 3$ and $3 + 16$	yes	$16 - 4$ and $4 - 16$	no
$16 - 3$ and $3 - 16$	no	$16 + 6$ and $6 + 16$	yes
$16 + 5$ and $5 + 16$	yes	$16 - 16$ and $16 - 16$	yes
$16 - 5$ and $5 - 16$	no	$16 + 7$ and $7 + 16$	yes
$16 + 8$ and $8 + 16$	yes	$16 - 7$ and $7 - 16$	no
$16 - 8$ and $8 - 16$	no	$16 + 0$ and $0 + 16$	yes
$16 + 9$ and $9 + 16$	yes	$15 + 9$ and $9 + 15$	yes

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Do these calculations have the same answer? Write yes or no next to each calculation.

$14 + 2$ and $2 + 14$		$14 - 9$ and $9 - 14$	
$14 - 2$ and $2 - 14$		$14 + 4$ and $4 + 14$	
$14 + 3$ and $3 + 14$		$14 - 4$ and $4 - 14$	
$14 - 3$ and $3 - 14$		$14 + 6$ and $6 + 14$	
$14 + 5$ and $5 + 14$		$14 - 6$ and $6 - 14$	
$14 - 5$ and $5 - 14$		$14 + 7$ and $7 + 14$	
$14 + 8$ and $8 + 14$		$14 - 7$ and $7 - 14$	
$14 - 8$ and $8 - 14$		$14 + 0$ and $0 + 14$	
$14 + 9$ and $9 + 14$		$13 + 9$ and $9 + 13$	

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Do these calculations have the same answer? Write yes or no next to each calculation.

$14 + 2$ and $2 + 14$	yes	$14 - 9$ and $9 - 14$	no
$14 - 2$ and $2 - 14$	no	$14 + 4$ and $4 + 14$	yes
$14 + 3$ and $3 + 14$	yes	$14 - 4$ and $4 - 14$	no
$14 - 3$ and $3 - 14$	no	$14 + 6$ and $6 + 14$	yes
$14 + 5$ and $5 + 14$	yes	$14 - 6$ and $6 - 14$	no
$14 - 5$ and $5 - 14$	no	$14 + 7$ and $7 + 14$	yes
$14 + 8$ and $8 + 14$	yes	$14 - 7$ and $7 - 14$	no
$14 - 8$ and $8 - 14$	no	$14 + 0$ and $0 + 14$	yes
$14 + 9$ and $9 + 14$	yes	$13 + 9$ and $9 + 13$	yes