

PROPERTIES SORT

Cut out all of the following cards. Sort them into sets, grouping them according to a characteristic they share. Write the reason that you grouped them on one of the post-its provided.

A. $4 + 0 = 4$	B. $3 + x = x + 3$	C. $4 + (3 + 5) = (4 + 3) + 5$
D. $3 \cdot 5 = 5 \cdot 3$	E. $13 \cdot 1 = 13$	F. $1 \cdot 5 = 5$
G. $0 + x = x$	H. $13 + 5 = 5 + 13$	I. $3 + 0 = 3$
J. $3 \cdot x = x \cdot 3$	K. $1x = x$	L. $3 \cdot 1 = 3$
M. $1 \cdot 10 = 10$	N. $4 \cdot (3 \cdot 5) = (4 \cdot 3) \cdot 5$	O. $0 + x = x$
P. $y + x = x + y$	Q. $4(3 + 5) = 4 \cdot 3 + 4 \cdot 5$	R. $3 + (-3) = 0$
S. $20 + 5x = 5(4 + x)$	T. $4 + (3 + x) = (4 + 3) + x$	U. $5 \cdot \frac{1}{5} = 1$
V. $x + (-x) = 0$	W. $7 \cdot \frac{1}{7} = 1$	X. $(-5) + 5 = 0$
Y. $4 + (6 + 5) = (4 + 6) + 5$	Z. $4(3 + x) = 12 + 4x$	AA. $3 \cdot 5 = 5 \cdot 3$
BB. $\left(-\frac{1}{3}\right) \cdot 3 = 1$	CC. $4 \cdot (3 \cdot x) = (4 \cdot 3) \cdot x$	DD. $x \cdot \frac{1}{x} = 1, x \neq 0$