

Subsets and elements

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Element or Subset or Both or Neither?

In each row, you must decide if Thing 1 is (element / subset / neither / both) of Thing 2.

Circle the letter in the correct column.

Hint: If confused, write down the cardinality of Thing 2 (if defined). That sometimes helps.

Thing 1	\in	\subseteq	neither	both	Thing 2
0	T	H	E	R	$\{1, 2, 3\}$
1	S	O	A	S	$\{1, 2, 3\}$
2	R	L	P	I	$\{1, 2, 3\}$
$\{1\}$	S	E	V	H	$\{1, 2, 3\}$
$\{1, 2, 3\}$	L	V	M	S	$\{1, 2, 3\}$
\emptyset	U	I	O	N	$\{1, 2, 3\}$
$\{\}$	B	N	W	C	$\{1, 2, 3\}$
$\{\emptyset\}$	O	I	U	Y	$\{1, 2, 3\}$
\mathbb{Z}	W	E	S	A	\mathbb{Q}
\mathbb{N}	S	R	H	A	$\{\mathbb{Z}\}$
\mathbb{Z}	L	T	D	F	\mathbb{R}
\mathbb{R}	S	O	E	G	\mathbb{Z}
1	H	U	L	P	1
$\{1\}$	B	M	S	U	$\{1, \{1\}\}$
$\{\{1\}\}$	Q	R	V	G	$\{1, \{1\}\}$
$\{\{\{1\}\}\}$	U	A	S	D	$\{1, \{1\}\}$
$\{1, 2, 3\}$	R	V	I	K	$\{\{1\}, \{1, 2\}, \{1, 2, 3\}\}$
$\{\{1, 2, 3\}\}$	L	E	F	T	$\{\{1\}, \{1, 2\}, \{1, 2, 3\}\}$
1	C	E	B	D	$\{\{1\}, \{1, 2\}, \{1, 2, 3\}\}$
1	M	O	R	E	$\{\{1\}, \{1, 2\}, 1, 2, 3\}$
$\{1\}$	T	F	I	U	$\{\{1\}, \{1, 2\}, 1, 2, 3\}$
$\{1\}$	W	N	E	G	$\{\{1, 2\}, 1, 2, 3\}$