Infinity and Beyond

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Isaac Van Doren

Sets

$\{890, \text{"foo"}, f, \pi\}$
$\{1,2,3,4\}$
$\{\textcolor{red}{\bullet}, \textcolor{blue}{\bullet}, \textcolor{green}{\bullet}\}$
$\{\}$

What does it mean to say two sets are the same size?

Title

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

$$\{1, 2, 3, 4, 5, 6, \dots\}$$
$$\{1, 2, 3, 4, 5, 6, \dots\}$$

$$\{1, \quad 2, \quad 3, \quad 4, \quad \ldots\}$$

$$\updownarrow \quad \updownarrow \quad \updownarrow \quad \updownarrow$$

$$\{1, \quad 2, \quad 3, \quad 4, \quad \ldots\}$$