

1.1 Sets and Subsets (Definition Day)

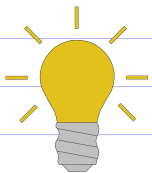


Notation: a way to write something
 $\{ \}$ bracket

Set: a collection of objects
 Name \rightarrow 1 letter Set A $\{ \text{objects} \}$

Subset: a smaller set within a set

Element: each individual object in a set



The basket represents the set. What seven elements does the set contain?

Use the list method to describe the set B

$B = \{ \text{toothpaste, soap, razor, toothbrush, comb, brush, towel} \}$

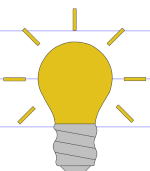
What is a possible subset of set B?

$\{ \text{toothpaste, toothbrush} \}$

$\{ \text{comb, brush} \}$
 $\{ \text{soap, towel} \}$

Use set-builder notation to describe set B

$B = \{ x \mid x \text{ is hygiene products} \}$



Use the list method to describe the students in this class (set C)

$C = \{ \text{Asher, Trinity, Carson, Ava, Reagan, Jacklyn, Riley L, Lexi, Vander, J'adore, Riley J, Kevin, Tristen, Jace} \}$

What is a possible subset of set C?

$\{ \text{9th grade} \}$

$\{ \text{2nd row} \}$

$\{ \text{Girls} \}$

$\{ \text{Black shirt} \}$

Use set-builder notation to describe set C

$C = \{ x \mid x \text{ is students in Geometry class} \}$