# Verzamelingen

## Definitie van Verzamelingen

## Unie van verzamelingen

A $∪B$

Geef de unie volgende verzamelingen ( A $∪B )$

|  |  |
| --- | --- |
| A={1,2,4} en B={3,4,5,6} A $∪B=$ | A={2,4} en B={3,4,5} A $∪B=$ |
| A={2,8,11} en B={2,4,15,16} A $∪B=$ | A={11,33,44} en B={22,44,55,66} A $∪B=$ |
| A={1,2,4,5,6,7} en B={2,4,5,6,7,9} A $∪B=$ | A={1,4} en B={4} A $∪B=$ |
| A={1,2,4,7,9,10,11} en B={2,4,5,6,7,8,9,10} A $∪B=$ | A={1,3,4} en B={1,2,4,5} A $∪B=$ |
| A={1,2} en B={3,4} A $∪B=$ | A={1,2,4,6} en B={2,4,5,6} A $∪B=$ |

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## Doorsnede van verzamelingen

( A $∩B )$

Geef de doorsnede volgende verzamelingen ( A $∩B )$

|  |  |
| --- | --- |
| A={1,2,4,5} en B={2,3,5,6} A $∩B =$A $∪B=$ | A={1,2,4} en B={3,4,5} A $∩B =$A $∪B=$ |
| A={1,4,8,11} en B={1,4,15,16} A $∩B =$A $∪B=$ | A={11,33} en B={22,44,55,66} A $∩B =$A $∪B=$ |
| A={1,3,4,5,6,7,9} en B={2,4,5,6,7,8} A $∩B =$A $∪B=$ | A={4,5} en B={4,5} A $∩B =$A $∪B=$ |
| A={1,3,4,8,9,10,11} en B={2,5,6,7,8,9,10} A $∩B =$A $∪B=$ | A={1,2,3} en B={1,2,4,5} A $∩B =$A $∪B=$ |
| A={1,3,4} en B={3,4} A $∩B =$A $∪B=$ | A={1,2,5} en B={2,4,5,6} A $∩B =$A $∪B=$ |

##

## Verschil van verzamelingen

A \ B

Geef het verschil volgende verzamelingen ( A \ B )

|  |  |
| --- | --- |
| A={2,3,4} en B={2,4,5,6} A \ B =. A $∩B =$B \ A =. A $∪B=$ | A={1,2,4} en B={2,4,5} A \ B =. A $∩B =$B \ A =. A $∪B$  |
| A={1,2,8,11} en B={2,4,15,16} A \ B =. A $∩B =$B \ A =. A $∪B$  | A={22,44} en B={22,44,55,66} A \ B =. A $∩B =$B \ A =. A $∪B$  |
| A={1,2,4,5,6,7,9} en B={2,4,5,6,7,8} A \ B =. A $∩B =$B \ A =. A $∪B$  | A={4} en B={4} A \ B =. A $∩B =$B \ A =. A $∪B$ |
| A={1,7,8,9,10,11} en B={2,4,5,6,7,8,9,10} A \ B =. A $∩B =$B \ A =. A $∪B$ = | A={1,2,4} en B={1,2,4,5} A \ B =. A $∩B =$B \ A =. A $∪B$  |
| A={1,2} en B={2,4} A \ B =B \ A = | A={1,2,4,5} en B={2,4,5,6} A \ B =B \ A = |

## Element van en deel van

$$\in ,\notin ,⊂ ,⊄$$

Vul in : $\in ,\notin ,⊂ ,⊄$

|  |  |
| --- | --- |
| A ={1,2,3,4,5,6,7,8}2…… A | A ={1,2,3,4,5,6,7,8}9…… A |
| A ={1,2,3,4,5,6,7,8}{2,3,7}…… A | A ={1,2,3,4,5,6,7,8}{2,3,10}…… A |
| A ={1,2,3,4,5,6,7,8} en B={7,8,9,10}6…… A$ ∩B$ | A ={1,2,3,4,5,6,7,8} en B={6,7,8,9,10}{6,7}…… A$ ∩B$ |
| A ={1,2,3,4,5,6,7} en B={7,8,9,10}{7,8}…… A$ ∩B$ | A ={1,2,3,4,5,6,7,8} en B={7,8,9,10}8…… A$ ∩B$ |
| A ={1,2,3,4,5,6,7,8} en B={1,7,8,9,10}{1,7,8}…… A$ ∪B$  | A ={1,2,3,4,5,6,7,8} en B={7,8,9,10}7…… A$ ∪B$  |