

**Antwoorden:** All forces in kN

The normal force in a bar positive as a tensile force and negative as a compressive force.

1a.  $A_h = 30 (\leftarrow)$ ;  $A_v = 60 (\downarrow)$

$B_h = 30 (\leftarrow)$ ;  $B_v = 60 (\uparrow)$

1c.  $N^{(1)} = +50$

$N^{(2)} = -100$

2a.  $A_h = 60 (\leftarrow)$ ;  $A_v = 45 (\downarrow)$

$B_h = 0$ ;  $B_v = 45 (\uparrow)$

2c.  $N^{(1)} = -60$

$N^{(2)} = +75$

3a.  $A_h = 78 (\leftarrow)$ ;  $A_v = 36 (\downarrow)$

$B_h = 18 (\rightarrow)$ ;  $B_v = 36 (\uparrow)$

3c.  $N^{(1)} = -30$

$N^{(2)} = +60$

4a.  $A_h = 30 (\rightarrow)$ ;  $A_v = 90 (\downarrow)$

$B_h = 90 (\leftarrow)$ ;  $B_v = 90 (\uparrow)$

3c.  $N^{(1)} = +30$

$N^{(2)} = -150$