## More flow nets











## Determine the flow rate through the flow net

(from Fetter - page 134)

## $q^{\prime}=(K p h) / f$

Where:
$q^{\prime}=$ the discharge per unit width of the aquifer in the $3^{\text {rd }}$ dimension $\mathrm{K}=$ the permeability $(\mathrm{cm} / \mathrm{s})^{*}$
$p=$ the number of flow tubes bounded by adjacent pairs of flow lines
$h=$ the head loss over the length of the flow lines (cm) $f=$ the number of squares bounded by adjacent flow lines

The result is in $\mathrm{cm}^{2} / \mathrm{s}$ but we need to multiply that by 100 cm (unit width of the aquifer) to get flow ( $\mathrm{cm}^{3} / \mathrm{s}$ ) per metre along the third dimension
*For now we'll assume that $K=0.001 \mathrm{~cm} / \mathrm{s}$ for the silty-sand of the Quadra Sand here



