ASSOCIATION RULES (aka: Rule-Based Attribution)

CONFIDENCE = $P(\{i_1 \land i_2 \land i_3\})\{i_1 \land i_2\}$ as an example.

ex)

<u>rule</u>		<u>Support</u>	confidence
3→5	"3 infers 5"	. 3	$\frac{503}{3} = 100\%$
4→5		. 2	.2/.5
2-1		.5	.5/.5
5 → 3		. 3	.3/.6

association rules are evaluated via basic unconditional & conditional probabilities.

a common application is to use confidence to determine if two retail goods are substitutes or complements.