Table 10: **Extended results for experiment Q1.** We evaluated all models over 30 standard (*i.e.*, non-optimal) runs using different seeds and measured their label accuracy (ACC(\mathbf{Y})) and concept accuracy (ACC(\mathbf{C})).

	XOR							
	DPL		SL		LTN			
	ACC(Y)	$ACC(\mathbf{C})$	$ACC(\mathbf{Y})$	$ACC(\mathbf{C})$	$ACC(\mathbf{Y})$	$ACC(\mathbf{C})$		
-	$80.6 \pm 16.9\%$	$22.0\pm7.1\%$	$89.3 \pm 15.9\%$	$23.7\pm7.0\%$	$83.9\pm14.5\%$	$20.5\pm9.0\%$		
DIS	$82.1\pm24.0\%$	$68.8\pm41.9\%$	$84.2\pm21.6\%$	$82.5\pm35.0\%$	$93.3\pm17.0\%$	$88.8\pm28.8\%$		

	MNIST-Addition							
	DPL		SL		LTN			
	$ACC(\mathbf{Y})$			$ACC(\mathbf{C})$				
—	$96.3 \pm 1.2\%$	$43.1\pm21.3\%$	$97.0\pm0.3\%$	$40.2 \pm 26.3\%$	$78.5 \pm 25.1\%$	$46.3 \pm 17.1\%$		
DIS	$99.5\pm0.1\%$	$99.7\pm0.1\%$	$98.8\pm0.1\%$	$99.7\pm0.1\%$	$95.8\pm5.5\%$	$97.8\pm3.0\%$		