

	Result Unknown	Change Unknown	Start Unknown
Join	_____ penguins jumped in the ocean for a swim. _____ more penguins joined them. How many penguins went swimming in the ocean?	_____ Emperor penguins were napping on an iceberg. How many more Emperor penguins can nap, if the iceberg has room for _____ napping penguins?	Some Emperor penguins began to lay their eggs. Soon _____ more Emperor penguins began to lay their eggs. Now there were _____ Emperor penguins laying eggs. How many Emperor penguins were there to start with?
Separate	_____ penguins were sunbathing on an iceberg. _____ of them dove into the ocean. How many penguins were left on the iceberg?	A mother penguin caught _____ fish. She gave some to her pups. Then she had _____ fish left for herself. How many fish did she give to her pups?	There were some penguins swimming underwater catching fish. _____ penguins got tired and climbed out for a rest. That left _____ penguins swimming in the water. How many penguins were in the water to start with?
	Difference Unknown	Compare Total Unknown	Reference Set Unknown
Compare	There were _____ adult penguins sliding in the snow. There were also _____ young penguins sliding in the snow. How many more adult penguins were sliding in the snow than young penguins?	A crested penguin ate _____ fish. A king penguin ate _____ more fish than the crested penguin. How many fish did the king penguin eat?	The largest zoo in our state has _____ penguins. They have _____ more penguins than our zoo. How many penguins does our zoo have?
	Whole Unknown	Part Unknown	
Part-Part-Whole	There were _____ blue fairy penguins and _____ crested penguins. How many penguins were there?	There were _____ penguins on an iceberg. _____ of them were sitting on their egg. How many penguins were not sitting on their egg?	

*Adapted from CGI Problems for Primary Students, 1996*