Overview of Egyptian mathematics: http://www-groups.dcs.st-and.ac.uk/~history/HistTopics/Egyptian_mathematics.html

Egyptian numeral system: http://www-groups.dcs.st-and.ac.uk/~history/HistTopics/Egyptian_numerals.html

Egyptian papyri: http://www-groups.dcs.st-and.ac.uk/~history/HistTopics/Egyptian_papyri.html

Overview of Babylonian mathematics: http://www-groups.dcs.st-and.ac.uk/~history/HistTopics/Babylonian_mathematics.html

or http://en.wikipedia.org/wiki/Babylonian_mathematics
or a Readers Digest version: http://it.stlawu.edu/~dmelvill/mesomath/obsummary.html

Babylonian numeral system: http://www-groups.dcs.st-and.ac.uk/~history/HistTopics/Babylonian_numerals.html
and further exploration of it: http://www.spirasolaris.ca/sbb1sup1.html

And some number theory based on Babylonian mathematics: http://www.seshat.ch/home/babylon.htm

Pythagorean Theorem alla Babylonians: http://galileoandeinstein.physics.virginia.edu/lectures/BabylonianTriplets.htm

and for a very different perspective: http://www.wonderquest.com/base-60.htm
or in same vein: http://www.astro-tom.com/time/24_hours.htm

Finally, zero as a placeholder in Babylonian mathematics: http://www.und.nodak.edu/dept/math/history/zeroph.htm

And for perspective, Egyptian science: http://www.touregypt.net/science.htm
or Babylonia science: http://www.ucl.ac.uk/sts/gregory/1001/handouts/h02_bab.doc