WHAT IS AUTOMATICITY?

The research says that automaticity

is being able to retrieve
an answer within 3
seconds. It's what Logan(1991)
called the "instant popping into
of mind." It means students can
easily recall basic facts from their long
term memory, without even thinking about
it. A "reasonable amount of time" means
moving through a
process without getting stuck, lost,
or bogged down (Bay-Williams & San
Giovani, 2022).

So really it is about
fluidity with your facts,
stopping and thinking along
the way is fine. With targeted,
intentional, purposeful practice,
automaticity comes. Research says
that by 5th grade we want students to be
automatic, otherwise they get way bogged
down in the little stuff and exhausted
on their way to higher mathematics.
The focus must be on the number
sense so students can think
and reason.