Divisibility Practice

EXPANSION PROBLEMS

Explore the following prompts. Can you come up with rules for each?

Expansion Question #1

A. What do you think the rule of divisibility by 32 is? State it; test it for a couple of numbers.

B. Why do you think it works?

Expansion Question #2

A. What do you think the rule of divisibility by 25 is? State it; test them for a couple of numbers.

B. How about by 125? State it; test them for a couple of numbers.

C. Why do you think it works?

Expansion Question #3

A. What do you think the remainder is when 797 is divided by 4?

B. Can you come up with a shortcut? Can you generalize it for 8? 125?