5-Minute Group Exploration

Part 1

Here are four different sequences.

Show the pattern in each sequence above.

What is the same about each pattern above?

Part 2

Here are four more sequences.

$$-96, -48, -24, -12, \dots$$

Show the pattern in each sequence above.

What is the same about each pattern above?

- The sequences in Part 1 are called <u>arithmetic sequences</u>.
- The sequences in Part 2 are called **geometric sequences**.

Consider each of the following sequences and decide if it is an arithmetic sequence, a geometric sequence, or neither.

e 1,
$$\frac{1}{2}$$
, $\frac{1}{3}$, $\frac{1}{4}$, ...

$$\mathbf{j} \sqrt{1}, \sqrt{2}, \sqrt{3}, \sqrt{4}, \dots$$