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Shared Community Problem
Patterns

Every summer tourists travel to Sitka on cruise ships. One cruise ship that visits Sitka is the Westerdam. The Westerdam can have as many as 1,916 passengers. Often cruise ship passengers take bus tours when they get to Sitka. If every passenger on the Westerdam wanted to take a bus tour how many buses would be needed? The average tour bus in Sitka holds up to 50 passengers.

Work –

# of Buses	1	2	3	4	5	6	7	8	9	10
#of passengers	50 x 1 50	50x2 100	50x 3 150	50 x4 200	50 x5 250	50 x6 300	50 x7 350	50 x8 400	50 x9 450	50x10 500

I found a pattern. 10 buses can hold 500 passengers, 20 buses could hold 1,000, 25 could hold 1,500, 30 buses could hold 2,000.

29 buses would hold 1950 people (2,000-50) so 28 buses could hold 1900 (1950-50) people

If every passenger on the Westerdam wanted a bus tour it would take 29 buses.