

# Arithmetic Sequence | Word Problems

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- 1) The auditorium in Penndale High School has 25 seats in the first row, 29 seats in the second row, 33 seats in the third row and so on in an arithmetic sequence. Determine the number of seats in each of the next three row.

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- 2) On day one, 6 students registered for a summer camp in Lansdale. There were 13 students who enrolled on day two, 20 students on day three, and so on in an arithmetic sequence. How many students registered on the 8th day?

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- 3) The cab driver charges a fare of \$4 for a mile. The meter displays a rate of \$7.50 for 2 miles, \$11 for 3 miles and so on in an arithmetic sequence. How much will the meter display for each of the following distances: 4 miles, 5 miles and 6 miles?

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- 4) There are 56 people in the first row of the seats at a soccer stadium. With 59 spectators in the second row, 62 spectators in the third row, and so on, the seating enlarges in an arithmetic sequence. How many people are in the 10th row?

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- 5) Nina is at a theme park where there are many rides. On Monday, she has 8 rides. Over the course of the next few days, she has for 12 rides, 16 rides, and so on in an arithmetic sequence. How many rides does she enjoy on the 5th day?

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