

## Geometric Sequence | Word Problems

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- 1) Jamie threw a ball 30 feet up in the air. The ball fell with a series of bounces, each time rebounding to 85% of the height of the previous bounce. How high was the third bounce?

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- 2) The value of a Techmart share is \$35 in year 1. The value increases to \$140 in the 2nd year and \$560 in the 3rd year. If the price continues to increase in a geometric sequence, how much will a Techmart share cost in the tenth year?

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- 3) A new educational website was launched. The website witnessed 158 visitors on Monday. Successive days showed an increase in the number of visitors to 316, 632 and so on. Determine the number of visitors the website received on each of the following days - Thursday, Friday and Saturday.

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- 4) Hugh started working as a software engineer. During the first year, he was paid \$25 per hour. If his salary was raised to \$50/hour in the 2nd year, \$100/hour in the 3rd year, and so on in a geometric sequence, how much will Hugh be paid per hour in the 7th year?

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- 5) Walter owns a lemonade shop at the mall. He sells 13 glasses of lemonade in the first hour, 26 glasses of lemonade in the second hour, 52 glasses of lemonade in the third hour, and so on in a geometric sequence. How many glasses of lemonade does Walter sell in the 4th hour?

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