**Trend lines for yearly data**

The following [time series](http://www.phoenix.aleks.com/alekscgi/x/Isl.exe/1Osry-9y5sDq5XoIMKt483ZSs5PJUklkxFaqzYezinbS5hxmhAswhYA3MJcWJnLhyVA3tJluQ5NsUYHEbAGZLc571q9YdAkZ3dyWD3togsA-iaPJXX7D?1Ah3W-70aCI1BkKSpnqAALm5Gyb7WdSBWip1hi03ZszoS257w6PWM_gWH00h_7mSDMFraeXTthvGDlD8oRdOgkKIrlzsDfhf0u6vdUeq8sAoA) data represent the quarterly amounts spent on advertising (in millions of dollars) by a large toy company (read across):

|  |  |  |  |
| --- | --- | --- | --- |
| Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 |
| 16.3 | 14.6 | 15.8 | 14.3 |
| 16.8 | 14.1 | 16.0 | 15.2 |
| 16.4 | 15.4 | 14.2 | 14.6 |
| 17.4 | 15.6 | 16.6 | 15.9 |
| 18.5 | 19.6 | 17.9 | 18.8 |
| 19.8 | 19.9 | 16.1 | 20.5 |
| 21.0 |  |  |  |

This series of data begins in Quarter http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?2of http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?2%3A%3A6(i.e., time period http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?w%23%3E%232corresponds to the first quarter of http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?2%3A%3A6). Using [regression analysis](http://www.phoenix.aleks.com/alekscgi/x/Isl.exe/1XFl52oSK2RMKkjBX_rX7aKWVI-1wBhHJzPMuwQ_0zkWK0sfpVFFpw7yXO0aBzbz5C7yqGpPfIf7wFNDrVC6tJJbE5o8hT16y0xaearJ227s0N-1gk4R?16P_togtlQY8wqe0LOWtZisacO9cKCvbI9JWxWJLWEpyIYuDdXoC5SlUiHJwmRElssCfEorAwwLxs-ANDPcJ6Cuy3-WEsBS_j5yIP71f2EJKc), a linear [trend](http://www.phoenix.aleks.com/alekscgi/x/Isl.exe/1hozdpMmhpcuhihtFjiarv-ftQHr5s7REmgax9kYmNYfhV92awIJa9KAFgnjDNiOdWKAXg7sVQdk5zrMCwm0MOCHv_lSuw30kVCjfviLZp55mqHrn0J2?1tZAvn_XOukg7D2fRPGXq6cmSB2rFxgYMQEcUraS55QTsakfsJ-w2-DpiC3obOVPoufn3CZ24OCdNofGW3LcyVUgL0MOmcR0K7wwU1o) line of the form http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?W%3Fpva%3Dw%3F%2Cpva%3D%23%3E%2327%2D37%23%28%233%2D11%23wwas fit to the data. Using this information, generate a [forecast](http://www.phoenix.aleks.com/alekscgi/x/Isl.exe/1abkGIiiOIOdONTj1YCcIspEzT7sNta0COAdbxsfFOz0O4L47Kbu7xj_13NDUOCNG_j_xZaRdTV3NJJLiKqIPLE631BZ86IIj4ED5sC-DIfCF27sENgq?1bZp7yPObId-CNCP8BOOFkcBy02tUQHhKXyMyM3CC6xBZxhiSQT28qu48XtpFhJEE1gQXdvvxtYa61XWMdbJf4YguR-BcWbSbCnlQGsTkurpZXq) for the total yearly amount of money that will be spent on advertising in http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?1323.