

**Answer on Question #75328 – Math – Algebra
Question**

A new car is purchased for 17900 dollars. The value of the car depreciates at 13% per year. What will the value of the car be, to the nearest cent, after 7 years?

Solution

- 1) $17900 * 0.13 = 2327$;
- 2) $17900 - 2327 = 15573$;
After 1 year
- 3) $15573 * 0.13 = 2024.49$;
- 4) $15573 - 2024.49 = 13548.51$;
After 2 years
- 5) $13548.51 * 0.13 = 1761.31$;
- 6) $13548.51 - 1761.31 = 11787.2$
After 3 years
- 7) $11787.2 * 0.13 = 1532.34$;
- 8) $11787.2 - 1532.34 = 10254.86$;
After 4 years
- 9) $10254.86 * 0.13 = 1333.13$;
- 10) $10254.86 - 1333.13 = 8921.73$;
After 5 years
- 11) $8921.73 * 0.13 = 1159.83$;
- 12) $8921.73 - 1159.83 = 7761.9$;
After 6 years
- 13) $7761.9 * 0.13 = 1009.05$;
- 14) $7761.9 - 1009.05 = 6752.85$;
After 7 years

Answer: 6752.85 dollars.