Model Growth and Decay

Grades 10-11 | Algebra 2 | Developing

Learner: _____ Date: _____

Use y=a(1+r)^t for growth and y=a(1-r)^t for decay. Give the requested value.

$200 grows 5% for 2 years _____

Work/check: _____

500 bacteria grow 20% for 3 hours _____

Work/check: _____

$800 loses 10% for 2 years _____

Work/check: _____

1000 mg decays 25% for 2 intervals _____

Work/check: _____

$400 grows 3% for 1 year _____

Work/check: _____

200 cells double for 4 cycles _____

Work/check: _____

Grown-up check: $220.50; 864; $648; 562.5 mg; $412; 3200.

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