

Name: _____ Period: _____ Date: _____

Exponential Growth and Decay

Guide Notes

1. A certain cell splits into 2 after every hour. How many cells will be there after four hours if there are 17 cells at the start?

2. Suppose that a TV set depreciate 10% in value each year for the first five years. What is it worth after five years if its original cost was \$1300?

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3. Lisa deposited \$1000 in a saving account which pays 12% interest compounded annually. How much interest will her money earns in 5 years.

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Note:

Terms	Rate	Time
Annually	r	t
Semi - Annually	$r/2$	$2t$
Quarterly	$r/4$	$4t$
Monthly	$r/12$	$12t$