

Name _____

7-2A Lesson Master

Questions on SPUR Objectives
See pages 452–455 for objectives.

USES Objective D

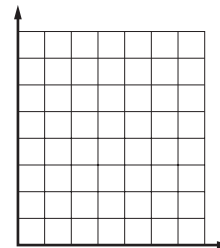
In 1–3, match the scenario to the correct formula listed below.

A $P = 7(1.02)^t$ B $P = 7(2)^t$ C $P = 7(1.2)^t$

1. A colony of bacteria doubles every hour. If a scientist started with 7 cells, how many cells would there be in t hours? _____
2. Scientists introduced 7 sea turtles into the ocean. They hope the sea turtle population grows by 2% each year. How many sea turtles will there be in t years? _____
3. When Pricy Pants Company opens a new store, they charge \$7 for a pair of pants. Each year their cost of pants increases by 20%. How much will it cost to buy a pair of pants t years from the opening year? _____
4. Anya has started a new job paying \$8.00 per hour. Assuming that her work is excellent, she will get a 5% raise every 4 months.
 - a. After 3 years, how many raises will she have gotten? _____
 - b. What will her pay rate be after 3 years? _____
 - c. If her employer kept giving her pay raises this way, what would her pay rate be after she had been working for 10 years? _____

REPRESENTATIONS Objective H

5. The president of Acme Industries predicts that the sales of a new product will grow by 35% every year for the next 5 years. This year's sales were \$40,000.
 - a. Make a table of values showing the amount of sales 0, 1, 2, 3, 4 and 5 years from now.
 - b. Graph the sales for the first five years.



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