Answers

Chapter 3 Practice Test

a) $(1-3)^4 \div 4 = 4$

b) $(-2)^0 + 4 \times 17^0 = 5$

of 2 to the sum of 8.

b) 145

c) $16 - 9 \times (2^3) + (-4)^2 = -40$

13. $3^0 \times 3^5$, $3^1 \times 3^4$, $3^2 \times 3^3$ **14.** 8.5 m³

12. Calculator sequence should show the following.

15. a) Mabil should have added 5 and 3, and then applied the exponent

1. C **2.** B **3.** C **4.** D **5.** A **6.** B **7.** Examples: $(10 \times 5)^5$, 50^5

8. $\left(\frac{5}{8}\right)^6$ **9.** $\frac{4 \times 4 \times 4 \times 4 \times 4}{4 \times 4} = 64$ **10.** 181.0 cm³ **11.** 240.1 m

Days

Start

16. a)

Number of Bacteria as a Product

 $300(3)^0$

 $300(3)^{1}$

 $300(3)^2$

 $300(3)^3$

 $300(3)^4$

 $300(3)^5$

 $300(3)^6$

 $300(3)^7$

Number

of Bacteria

900

2 700

8 100

24 300

72 900

218 700

656 100

300

previous number

 $300 \div 3 = 100$.

b) $B = 300(3)^d$ c) 5 904 900

of bacteria,

divide by 3:

d) 100. To find the