Exponential Growth & Decay · Grade 11

Name _____ Date _____ Score _____ / 6

01 A quantity of 300 decays by 10% each year for 2 years. What is the quantity after 2 years?

Answer: _____

02 A quantity of 60 decays by 10% each year for 1 year. What is the quantity after 1 year?

Answer: _____

03 A quantity of 500 grows by 20% each year for 3 years. What is the quantity after 3 years?

Answer: _____

04 A quantity of 64 grows by 25% each year for 2 years. What is the quantity after 2 years?

Answer: _____

05 A quantity of 20 decays by 50% each year for 2 years. What is the quantity after 2 years?

Answer: _____

06 A quantity of 20 decays by 10% each year for 1 year. What is the quantity after 1 year?

Answer: _____

Exponential Growth & Decay · Grade 11 (Answer Key)

01 A quantity of 300 decays by 10% each year for 2 years. What is the quantity after 2 years?

243

02 A quantity of 60 decays by 10% each year for 1 year. What is the quantity after 1 year?

54

03 A quantity of 500 grows by 20% each year for 3 years. What is the quantity after 3 years?

864

04 A quantity of 64 grows by 25% each year for 2 years. What is the quantity after 2 years?

100

05 A quantity of 20 decays by 50% each year for 2 years. What is the quantity after 2 years?

5

06 A quantity of 20 decays by 10% each year for 1 year. What is the quantity after 1 year?

18