1.		of the U.S. dollar is 3 percent. This means that every year prices increase andwich cost \$4.45 five years ago, what does it cost now? Use the			
	formula $P = A 1 + r 1$, where P is the amount an item costs today, A is the amount the ite originally cost, r is the interest rate as a decimal, and t is the time in years.				
	[A] \$3.82	[B] \$5.16	[C] \$21.58	[D] \$4.58	
2.	by 3.7 percent. If a paper	perback book cost \$5.25	is 3.7 percent. This means that every year prices increase cost \$5.25 nine years ago, what does it cost now? Use		
the formula $P = A \int_{0}^{\infty} 1 + r \int_{0}^{\infty} $					
	[A] \$5.44	[B] \$45.50	[C] \$7.28	[D] \$3.74	
3.	The inflation rate of the U.S. dollar is 3.8 percent. This means that every year prices increase by 3.8 percent. If a pound of vegetables cost \$1.75 three years ago, what does it cost now?				
	Use the formula $P = A$ the item originally cost	today, A is the amount time in years.			
	[A] \$5.05	[B] \$1.82	[C] \$1.96	[D] \$1.56	
4.	The inflation rate of the U.S. dollar is 3.5 percent. This means that every year prices increase by 3.5 percent. If a sandwich cost \$4.55 six years ago, what does it cost now? Use the				
formula $P = A 1 + r 1$, where P is the amount an item costs today, A is the amount the i originally cost, r is the interest rate as a decimal, and t is the time in years.					
	[A] \$26.34	[B] \$4.71	[C] \$3.67	[D] \$5.59	
5.	by 2.8 percent. If a quart of oil cost \$1.15 eight years ago, what does it cost now? Use the				
formula $P = A 1 + r 1$, where P is the amount an item costs today, A is the amount originally cost, r is the interest rate as a decimal, and t is the time in years.					
	[A] \$1.18	[B] \$1.43	[C] \$0.92	[D] \$8.94	
6.	The inflation rate of the U.S. dollar is 3.3 percent. This means that every year prices increase by 3.3 percent. If a stuffed animal cost \$14.05 seven years ago, what does it cost now? Use				
the formula $P = A 1 + r 1$, where P is the amount an item costs today, A is the amount the item originally cost, r is the interest rate as a decimal, and t is the time in years.					
	[A] \$17.64	[B] \$11.11	[C] \$95.10	[D] \$14.51	

7.	The inflation rate of the U.S. dollar is 3.6 percent. This means that every year prices increase by 3.6 percent. If a CD cost \$13.75 two years ago, what does it cost now? Use the formula				
	P = A 1 + r 1 , where P is the amount an item costs today, A is the amount the item originally cost, r is the interest rate as a decimal, and t is the time in years.				
	[A] \$12.78	[B] \$14.76	[C] \$26.51	[D] \$14.25	
8.	The inflation rate of the U.S. dollar is 3 percent. This means that every year prices increase by 3 percent. If a pound of meat cost \$0.95 five years ago, what does it cost now? Use the				
	formula $P = A \mathbf{D} + \mathbf{I}$	-r , where P is the amou	nt an item costs too	day, A is the amount the item	
	originally cost, r is	the interest rate as a deci	mal, and t is the time	ne in years.	
	[A] \$4.61	[B] \$1.10	[C] \$0.82	[D] \$0.98	
9. The inflation rate of the U.S. dollar is 2.9 percent. This means that every year prices income by 2.9 percent. If a paperback book cost \$4.45 four years ago, what does it cost now? Use the formula $P = A 1 + r 1$, where P is the amount an item costs today, A is the amount item originally cost, r is the interest rate as a decimal, and t is the time in years.					
	[A] \$4.99	[B] \$17.28	[C] \$4.58	[D] \$3.96	
10. The inflation rate of the U.S. dollar is 3.1 percent. This means that every year price by 3.1 percent. If a pound of meat cost \$1.65 six years ago, what does it cost now? formula $P = A 1 + r 1$, where P is the amount an item costs today, A is the amount originally cost, r is the interest rate as a decimal, and t is the time in years.				at does it cost now? Use the day, A is the amount the item	
	[A] \$1.70	[B] \$1.37	[C] \$1.98	[D] \$9.59	
11.	If \$1110 is invested in an account which earns 10% interest compounded annually, what will be the balance of the account at the end of 14 years? Use the formula $P = A 1 + r 1$, where P is the account balance, A is the amount originally invested, r is the interest rate as a decimal, and t is the time invested in years.				
	[A] \$1114	[B] \$18,186,240	[C] \$4215	[D] \$2664	
12.	If \$610 is invested in an account which earns 7% interest compounded annually, what will be the balance of the account at the end of 6 years? Use the formula $P = A 1 + r 1$, where P is the account balance, A is the amount originally invested, r is the interest rate as a decimal, and t is the time invested in years. [A] \$3916 [B] \$14,724 [C] \$915 [D] \$866				

13. If \$710 is invested in an account which earns 5% interest compounded annua			ounded annually, what will be		
the balance of the account at the end of 8 years? Use the formula $P = A 1 + r 1$, v				la $P = A 1 + r 1$, where P is	
				e interest rate as a decimal,	
	and t is the time inve	ested in years.			
	[A] \$1049	[B] \$5964	[C] \$994	[D] \$18,197	
14.	4. If \$700 is invested in an account which earns 9% interest compounded annually, what				
	the balance of the ac	ecount at the end of 11	years? Use the form	ula $P = A 1 + r 1$, where P is	
	the account balance, A is the amount originally invested, r is the interest rate as a decimal, and t is the time invested in years.				
	[A] \$815,432	[B] \$1806	[C] \$1393	[D] \$703	
15. If \$1210 is invested in an account which earns 6% interest compounded annually, w				pounded annually, what will	
	be the balance of the	e account at the end of	4 years? Use the for	mula $P = A \int \mathbf{l} + r \mathbf{l}$, where P	
	is the account balance	ce, A is the amount orig		the interest rate as a decimal,	
	and t is the time inve	ested in years.			
	[A] \$7930	[B] \$1528	[C] \$5130	[D] \$1500	
16	If \$000 is invested in	n an account which corr	us 20/ interest comp	ounded annually, what will be	
16. If \$980 is invested in an account which earns 8% interest compounded annually, what					
	the balance of the account at the end of 16 years? Use the formula $P = A \mathbf{l} \mathbf{l} + r \mathbf{l}$, where P is the account balance, A is the amount originally invested, r is the interest rate as a decimal,				
	and t is the time inve		any invested, 7 is the	e interest rate as a decimal,	
	[A] \$2234	[B] \$11,901,074	[C] \$983	[D] \$3357	
			2 3		
17.	If \$1360 is invested	in an account which ear	rns 4% interest com	pounded annually, what will	
	be the balance of the	e account at the end of 5	5 years? Use the for	mula $P = A 0 + r 0$, where P	
	is the account balance	ce, A is the amount orig	inally invested, r is	the interest rate as a decimal,	
	and t is the time invested in years.				
	[A] \$1361	[B] \$1655	[C] \$7314	[D] \$1632	
10	If \$0.40 :- :4 : 1 :		00/ :	11	
18.	18. If \$940 is invested in an account which earns 8% interest compounded annually, what wi				
the balance of the account at the end of 9 years? Use the formula $P = A \mathbf{l} \mathbf{l} + r \mathbf{l}$, where				•	
	the account balance, A is the amount originally invested, r is the interest rate as a decimal, and t is the time invested in years.				
	[A] \$186,458	[B] \$9137	[C] \$1879	[D] \$1617	

19.	If \$760 is invested in an account which earns 9% interest compounded annually, what will be
	the balance of the account at the end of 20 years? Use the formula $P = A 1 + r 1$, where P is
the account balance, A is the amount originally invested, r is the interest rate as	
	and t is the time invested in years.

[A] \$285,683,798

[B] \$16,568

[C] \$4259

[D] \$2128

20. If \$1380 is invested in an account which earns 5% interest compounded annually, what will be the balance of the account at the end of 15 years? Use the formula $P = A \int \mathbf{l} \mathbf{l} + r \mathbf{l}$, where P is the account balance, A is the amount originally invested, r is the interest rate as a decimal, and t is the time invested in years.

[A] \$2415

[B] \$2869

[C] \$1382

[D] \$604,294

21. A population of 490 deer return to a forest immediately after a fire. The population increases at an annual rate of 21%. Use the formula $P = A \int \mathbf{l} \mathbf{l} + r \mathbf{l} \mathbf{j}$, where P is the new population, A is the original population, P is the percent written as a decimal and P is the time in years to find the population 5 years after the fire.

22. A population of 240 deer return to a forest immediately after a fire. The population increases at an annual rate of 10%. Use the formula $P = A \mathbf{l} \mathbf{l} + r \mathbf{l} \mathbf{l}$, where P is the new population, A is the original population, P is the percent written as a decimal and P is the time in years to find the population 5 years after the fire.

23. A population of 230 deer return to a forest immediately after a fire. The population increases at an annual rate of 16%. Use the formula $P = A \mathbf{1} + r \mathbf{1}$, where P is the new population, A is the original population, P is the percent written as a decimal and P is the time in years to find the population 5 years after the fire.

24. A population of 400 deer return to a forest immediately after a fire. The population increases at an annual rate of 9%. Use the formula $P = A \mathbf{1} + r \mathbf{1}$, where P is the new population, A is the original population, P is the percent written as a decimal and P is the time in years to find the population 5 years after the fire.

- 25. A population of 390 deer return to a forest immediately after a fire. The population increases at an annual rate of 11%. Use the formula $P = A \int \mathbf{l} \mathbf{l} + r \mathbf{l} \mathbf{j}$, where P is the new population, A is the original population, P is the percent written as a decimal and P is the time in years to find the population 5 years after the fire.
- 26. A population of 280 deer return to a forest immediately after a fire. The population increases at an annual rate of 18%. Use the formula $P = A \mathbf{1} + r \mathbf{1}$, where P is the new population, A is the original population, P is the percent written as a decimal and P is the time in years to find the population 5 years after the fire.
- 27. A population of 270 deer return to a forest immediately after a fire. The population increases at an annual rate of 17%. Use the formula $P = A \mathbf{1} + r \mathbf{1}$, where P is the new population, A is the original population, P is the percent written as a decimal and P is the time in years to find the population 5 years after the fire.
- 28. A population of 350 deer return to a forest immediately after a fire. The population increases at an annual rate of 12%. Use the formula $P = A \ln r + r \ln r$, where P is the new population, A is the original population, P is the percent written as a decimal and P is the time in years to find the population 5 years after the fire.
- 29. A population of 420 deer return to a forest immediately after a fire. The population increases at an annual rate of 19%. Use the formula $P = A \ln r + r \ln r$, where P is the new population, A is the original population, r is the percent written as a decimal and t is the time in years to find the population 5 years after the fire.
- 30. A population of 330 deer return to a forest immediately after a fire. The population increases at an annual rate of 13%. Use the formula $P = A \mathbf{1} + r \mathbf{1}$, where P is the new population, A is the original population, P is the percent written as a decimal and P is the time in years to find the population 5 years after the fire.

31.	A boat that costs \$9300 decreases in value by 14% per year. How much will the boat be worth after 4 years?				
	[A] \$5087.18	[B] \$9244.00	[C] \$6407.33	[D] \$4212.82	
32.	A boat that costs \$8150 decreases in value by 13% per year. How much will the boat be worth after 3 years?				
	[A] \$8111.00	[B] \$5366.80	[C] \$2783.20	[D] \$3609.61	
33.	A boat that costs \$5400 decreases in value by 15% per year. How much will the boat be worth after 6 years?				
	[A] \$5310.00	[B] \$7090.53	[C] \$3363.39	[D] \$2036.61	
34.	A boat that costs \$6600 decreases in value by 19% per year. How much will the boat be worth after 5 years?				
	[A] \$9149.93	[B] \$2301.28	[C] \$6505.00	[D] \$4298.72	
35.	A boat that costs \$10,8 worth after 4 years?	300 decreases in value b	y 12% per year. How r	much will the boat be	
	[A] \$6194.01	[B] \$10,752.00	[C] \$6476.71	[D] \$4323.29	
36.	A boat that costs \$6200 decreases in value by 20% per year. How much will the boat be worth after 5 years?				
	[A] \$6100.00	[B] \$9227.58	[C] \$4168.38	[D] \$2031.62	
37.	A boat that costs \$6500 decreases in value by 18% per year. How much will the boat be worth after 3 years?				
	[A] \$3583.89	[B] \$6446.00	[C] \$2916.11	[D] \$4179.71	
38.	A boat that costs \$7750 decreases in value by 11% per year. How much will the boat be worth after 6 years?				
	[A] \$6745.71	[B] \$7684.00	[C] \$3851.61	[D] \$3898.39	
39.	A boat that costs \$8850 decreases in value by 16% per year. How much will the boat be worth after 4 years?				
	[A] \$8786.00	[B] \$4406.16	[C] \$7174.16	[D] \$4443.84	

40. A boat that costs \$5950 decreases in value by 17% per year. How much will the boat be worth after 6 years?

[A] \$9312.73

[B] \$5848.00

[C] \$1945.30

[D] \$4004.70

41. A certain species of animal is endangered and its numbers are decreasing at an annual rate of 16%. There are currently 400 animals in the population. Which is an exponential function representing the population and the estimated number of animals in 5 years?

[A] $f(x) = 400(0.84)^x$; 167

[B] $f(x) = 400(1.16)^x$; 840

[C] $f(x) = 400(1.16)^x$; 2320

[D] $f(x) = 400(0.84)^x$; 1680

42. A certain species of animal is endangered and its numbers are decreasing at an annual rate of 19%. There are currently 200 animals in the population. Which is an exponential function representing the population and the estimated number of animals in 5 years?

[A] $f(x) = 200(0.81)^x$; 70

[B] $f(x) = 200(0.81)^x$; 810

[C] $f(x) = 200(1.19)^x$; 1190

[D] $f(x) = 200(1.19)^x$; 477

43. A certain species of animal is endangered and its numbers are decreasing at an annual rate of 20%. There are currently 470 animals in the population. Which is an exponential function representing the population and the estimated number of animals in 5 years?

[A] $f(x) = 470(0.8)^x$; 1880

[B] $f(x) = 470(1.2)^x$; 1170

[C] $f(x) = 470(0.8)^x$; 154

[D] $f(x) = 470(1.2)^x$; 2820

44. A certain species of animal is endangered and its numbers are decreasing at an annual rate of 23%. There are currently 210 animals in the population. Which is an exponential function representing the population and the estimated number of animals in 5 years?

[A] $f(x) = 210(1.23)^x$; 591

[B] $f(x) = 210(0.77)^x$; 57

[C] $f(x) = 210(0.77)^x$; 809

[D] $f(x) = 210(1.23)^x$; 1292

45. A certain species of animal is endangered and its numbers are decreasing at an annual rate of 21%. There are currently 480 animals in the population. Which is an exponential function representing the population and the estimated number of animals in 5 years?

[A] $f(x) = 480(1.21)^x$; 2904

[B] $f(x) = 480(0.79)^x$; 148

[C] $f(x) = 480(0.79)^x$; 1896

[D] $f(x) = 480(1.21)^x$; 1245

46. A certain species of animal is endangered and its numbers are decreasing at an annual rate of 13%. There are currently 260 animals in the population. Which is an exponential function representing the population and the estimated number of animals in 5 years?

[A]
$$f(x) = 260(0.87)^x$$
; 130

[B]
$$f(x) = 260(1.13)^x$$
; 479

[C]
$$f(x) = 260(1.13)^x$$
; 1469

[D]
$$f(x) = 260(0.87)^x$$
; 1131

47. A certain species of animal is endangered and its numbers are decreasing at an annual rate of 17%. There are currently 310 animals in the population. Which is an exponential function representing the population and the estimated number of animals in 5 years?

[A]
$$f(x) = 310(0.83)^x$$
; 122

[B]
$$f(x) = 310(1.17)^x$$
; 1814

[C]
$$f(x) = 310(1.17)^x$$
; 680

[D]
$$f(x) = 310(0.83)^x$$
; 1287

48. A certain species of animal is endangered and its numbers are decreasing at an annual rate of 11%. There are currently 300 animals in the population. Which is an exponential function representing the population and the estimated number of animals in 5 years?

[A]
$$f(x) = 300(0.89)^x$$
; 1335

[B]
$$f(x) = 300(1.11)^x$$
; 506

[C]
$$f(x) = 300(1.11)^x$$
; 1665

[D]
$$f(x) = 300(0.89)^x$$
; 168

49. A certain species of animal is endangered and its numbers are decreasing at an annual rate of 12%. There are currently 420 animals in the population. Which is an exponential function representing the population and the estimated number of animals in 5 years?

[A]
$$f(x) = 420(0.88)^x$$
; 222

[B]
$$f(x) = 420(1.12)^x$$
; 2352

[C]
$$f(x) = 420(0.88)^x$$
; 1848

[D]
$$f(x) = 420(1.12)^x$$
; 740

50. A certain species of animal is endangered and its numbers are decreasing at an annual rate of 14%. There are currently 330 animals in the population. Which is an exponential function representing the population and the estimated number of animals in 5 years?

[A]
$$f(x) = 330(1.14)^x$$
; 635

[B]
$$f(x) = 330(1.14)^x$$
; 1881

[C]
$$f(x) = 330(0.86)^x$$
; 155

[D]
$$f(x) = 330(0.86)^x$$
; 1419