Task card 1 Exponential Growth, Decay & Compou...

$5,000 is invested at 3% interest compounded semiannually for 14 years. Find the balance, to the nearest cent.

Task card 2 Exponential Growth, Decay & Compou...

$2,000 is invested at 5% interest compounded continuously for 17 years. Find the balance, to the nearest cent.

Task card 3 Exponential Growth, Decay & Compou...

A machine worth $15,000 loses 2% of its value each year. Find its value after 8 years, to the nearest dollar.

Task card 4 Exponential Growth, Decay & Compou...

Does $y = 250(0.8)^x$ show growth or decay, and by what percent per period? Answer like: growth, 4%

Task card 5 Exponential Growth, Decay & Compou...

$1,500 is invested at 3.5% interest compounded semiannually for 12 years. Find the balance, to the nearest cent.

Task card 6 Exponential Growth, Decay & Compou...

$600 is invested at 7% interest compounded continuously for 12 years. Find the balance, to the nearest cent.

Task card 7 Exponential Growth, Decay & Compou...

A machine worth $15,000 loses 3% of its value each year. Find its value after 12 years, to the nearest dollar.

Task card 8 Exponential Growth, Decay & Compou...

$1,000 is invested at 4.5% interest compounded quarterly for 7 years. Find the balance, to the nearest cent.

Task card 9 Exponential Growth, Decay & Compou...

$1,500 is invested at 6% interest compounded monthly for 11 years. Find the balance, to the nearest cent.

Task card 10 Exponential Growth, Decay & Compou...

$5,000 is invested at 7% interest compounded continuously for 13 years. Find the balance, to the nearest cent.

Task card 11 Exponential Growth, Decay & Compou...

A town has 1,200 people and grows by 4% per year. Find its population after 7 years, to the nearest whole number.

Task card 12 Exponential Growth, Decay & Compou...

Does $y = 800(0.94)^x$ show growth or decay, and by what percent per period? Answer like: growth, 4%

Task card 13 Exponential Growth, Decay & Compou...

$500 is invested at 3% interest compounded monthly for 8 years. Find the balance, to the nearest cent.

Task card 14 Exponential Growth, Decay & Compou...

$5,000 is invested at 3% interest compounded continuously for 8 years. Find the balance, to the nearest cent.

Task card 15 Exponential Growth, Decay & Compou...

A machine worth $4,800 loses 2% of its value each year. Find its value after 4 years, to the nearest dollar.

Task card 16 Exponential Growth, Decay & Compou...

$4,000 is invested at 3% interest compounded monthly for 8 years. Find the balance, to the nearest cent.

Task card 17 Exponential Growth, Decay & Compou...

$1,000 is invested at 2.5% interest compounded semiannually for 9 years. Find the balance, to the nearest cent.

Task card 18 Exponential Growth, Decay & Compou...

$2,000 is invested at 3% interest compounded continuously for 5 years. Find the balance, to the nearest cent.

Task card 19 Exponential Growth, Decay & Compou...

A town has 24,000 people and grows by 2% per year. Find its population after 10 years, to the nearest whole number.

Task card 20 Exponential Growth, Decay & Compou...

Does $y = 3000(1.02)^x$ show growth or decay, and by what percent per period? Answer like: growth, 4%

Task card 21 Exponential Growth, Decay & Compou...

$500 is invested at 3% interest compounded quarterly for 6 years. Find the balance, to the nearest cent.

Task card 22 Exponential Growth, Decay & Compou...

$1,000 is invested at 3% interest compounded continuously for 6 years. Find the balance, to the nearest cent.

Task card 23 Exponential Growth, Decay & Compou...

A town has 50,000 people and grows by 2% per year. Find its population after 12 years, to the nearest whole number.

Task card 24 Exponential Growth, Decay & Compou...

$4,000 is invested at 2.5% interest compounded quarterly for 8 years. Find the balance, to the nearest cent.

Exponential Growth, Decay & Compound Interest Task Cards

Recording sheet · Grade 11 · Solve each problem. Round money to the nearest cent unless told otherwise.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Exponential Growth, Decay & Compound Interest Task Cards: Answer Key

Grade 11 · Hard

The answers online

1. 7586.11	**2.** 4679.29	**3.** 12761
4. decay, 20%	**5.** 2274.66	**6.** 1389.82
7. 10408	**8.** 1367.85	**9.** 2897.42
10. 12421.61	**11.** 1579	**12.** decay, 6%
13. 635.43	**14.** 6356.25	**15.** 4427
16. 5083.47	**17.** 1250.58	**18.** 2323.67
19. 29256	**20.** growth, 2%	**21.** 598.21
22. 1197.22	**23.** 63412	**24.** 4882.57