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

Does $y = 120(1.08)^x$ show growth or decay, and by what percent per period? Answer like: growth, 4%

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

$5,000 is invested at 3.5% interest compounded quarterly for 9 years. Find the balance, to the nearest cent.

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

A town has 1,200 people and grows by 6% per year. Find its population after 6 years, to the nearest whole number.

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

$1,000 is invested at 3.5% interest compounded continuously for 19 years. Find the balance, to the nearest cent.

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

$5,000 is invested at 2% interest compounded annually for 15 years. Find the balance, to the nearest cent.

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

$1,500 is invested at 4.5% interest compounded monthly for 7 years. Find the balance, to the nearest cent.

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

A colony of 10 bacteria doubles every 5 hours. How many bacteria are there after 10 hours?

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

$600 is invested at 4% interest compounded continuously for 10 years. Find the balance, to the nearest cent.

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

Does $y = 120(1.35)^t$ show growth or decay, and by what percent per period? Answer like: growth, 4%

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

$2,500 is invested at 4% interest compounded semiannually for 9 years. Find the balance, to the nearest cent.

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

A town has 24,000 people and grows by 6% per year. Find its population after 11 years, to the nearest whole number.

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

$3,000 is invested at 6% interest compounded continuously for 2 years. Find the balance, to the nearest cent.

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

$5,000 is invested at 2% interest compounded annually for 4 years. Find the balance, to the nearest cent.

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

$1,500 is invested at 3.5% interest compounded monthly for 4 years. Find the balance, to the nearest cent.

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

A colony of 5 bacteria doubles every 3 hours. How many bacteria are there after 3 hours?

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

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

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

$1,000 is invested at 4% interest compounded quarterly for 12 years. Find the balance, to the nearest cent.

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

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

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

A town has 4,800 people and grows by 12% per year. Find its population after 11 years, to the nearest whole number.

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

Does $y = 50(1.05)^t$ show growth or decay, and by what percent per period? Answer like: growth, 4%

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

$800 is invested at 3% interest compounded semiannually for 3 years. Find the balance, to the nearest cent.

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

$2,000 is invested at 3% interest compounded continuously for 11 years. Find the balance, to the nearest cent.

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

A town has 1,200 people and grows by 3% per year. Find its population after 8 years, to the nearest whole number.

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

$2,000 is invested at 3.5% interest compounded quarterly for 9 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 · Medium

The answers online

1. growth, 8%	**2.** 6841.92	**3.** 1702
4. 1944.49	**5.** 6729.34	**6.** 2054.18
7. 40	**8.** 895.09	**9.** growth, 35%
10. 3570.62	**11.** 45559	**12.** 3382.49
13. 5412.16	**14.** 1725.06	**15.** 10
16. 7095.34	**17.** 1612.23	**18.** 3591.65
19. 16697	**20.** growth, 5%	**21.** 874.75
22. 2781.94	**23.** 1520	**24.** 2736.77