Task card 1 Exponential Functions: Growth & De...

$f(x) = 3(2)^x$.

Find f(3).

Task card 2 Exponential Functions: Growth & De...

Does $y = 660(0.73)^t$ represent exponential growth or decay?

Task card 3 Exponential Functions: Growth & De...

$f(x) = 6(5)^x$.

Find f(3).

Task card 4 Exponential Functions: Growth & De...

$f(x) = 5^x$. Find f(1).

Task card 5 Exponential Functions: Growth & De...

Does $y = 720(1.25)^t$ represent exponential growth or decay?

Task card 6 Exponential Functions: Growth & De...

$f(x) = 6(4)^x$.

Find f(3).

Task card 7 Exponential Functions: Growth & De...

$f(x) = 5(5)^x$.

Find f(1).

Task card 8 Exponential Functions: Growth & De...

Does $y = 900(1.25)^t$ represent exponential growth or decay?

Task card 9 Exponential Functions: Growth & De...

$f(x) = 6(3)^x$.

Find f(2).

Task card 10 Exponential Functions: Growth & De...

$f(x) = 6(3)^x$.

Find f(3).

Task card 11 Exponential Functions: Growth & De...

Does $y = 140(0.92)^t$ represent exponential growth or decay?

Task card 12 Exponential Functions: Growth & De...

$f(x) = 4^x$. Find f(3).

Task card 13 Exponential Functions: Growth & De...

$f(x) = 4(4)^x$.

Find f(4).

Task card 14 Exponential Functions: Growth & De...

The value of an investment is modeled by $y = 6100(0.93)^t$, where t is in years. By what percent does it decrease each year?

Task card 15 Exponential Functions: Growth & De...

A town has 5000 people. Its population grows by 7% each year. What will the population be after 4 years?

Task card 16 Exponential Functions: Growth & De...

$f(x) = 320(\frac{1}{2})^x$. Find f(5).

Task card 17 Exponential Functions: Growth & De...

The value of a car is modeled by $y = 7200(0.72)^t$, where t is in years. By what percent does it decrease each year?

Task card 18 Exponential Functions: Growth & De...

A town has 6700 people. Its population grows by 3% each year. What will the population be after 10 years?

Task card 19 Exponential Functions: Growth & De...

$f(x) = 3(5)^x$.

Find f(1).

Task card 20 Exponential Functions: Growth & De...

Does $y = 720(0.75)^t$ represent exponential growth or decay?

Task card 21 Exponential Functions: Growth & De...

$f(x) = 5(2)^x$.

Find f(2).

Task card 22 Exponential Functions: Growth & De...

$f(x) = 3(3)^x$.

Find f(3).

Task card 23 Exponential Functions: Growth & De...

Does $y = 440(1.20)^t$ represent exponential growth or decay?

Task card 24 Exponential Functions: Growth & De...

$f(x) = 2^x$. Find f(2).

Exponential Functions: Growth & Decay Task Cards

Recording sheet · Grade 9 · Answer each question. Round money and populations to the nearest whole number. Write functions like y = 3(2)^x.

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 Functions: Growth & Decay Task Cards: Answer Key

Grade 9 · Easy

The answers online

1. 24	**2.** decay	**3.** 750
4. 5	**5.** growth	**6.** 384
7. 25	**8.** growth	**9.** 54
10. 162	**11.** decay	**12.** 64
13. 1024	**14.** 7%	**15.** 6554
16. 10	**17.** 28%	**18.** 9004
19. 15	**20.** decay	**21.** 20
22. 81	**23.** growth	**24.** 4