

# Double Worm

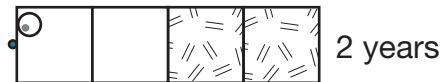
This is how a One-Eyed Double Worm looks when it is born.



The next year, the One-Eyed Double Worm is twice as large.



The year after that, it doubles in length again.



It keeps on growing, getting twice as large every year.



1. Do you think a One-Eyed Double Worm as old as you would be very big? \_\_\_\_\_ Explain. \_\_\_\_\_

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2. How long would an eight-year-old One-Eyed Double Worm be? \_\_\_\_\_ Show your work.

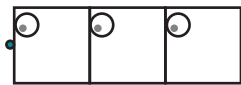
3. Would you like to meet a One-Eyed Double Worm that is 10 years old? \_\_\_\_\_ Explain. \_\_\_\_\_

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\_\_\_\_\_

 **Check-In: Questions 4–7**

There are many kinds of Double Worms on Gzorp. All the different kinds of Double Worms grow twice as long every year. Double Worms always grow in a straight line. Here is a Three-Eyed Double Worm at birth.



4. Draw a picture of the Three-Eyed Double Worm when it is one year old.

5. How many squares will it have when it is four years old?  
\_\_\_\_\_ Show your work.

Name \_\_\_\_\_ Date \_\_\_\_\_

6. How old is a Three-Eyed Double Worm with 96 squares?

\_\_\_\_\_ Show your work.

7. How many squares will it have when it is six years old?

\_\_\_\_\_ Show your work.

Name \_\_\_\_\_ Date \_\_\_\_\_

**Double Worm  
Check-In Questions 4–7  
Feedback Box**

	Expectation	Check In	Comments
Identify and extend patterns represented in numbers and in geometric patterns. [Q# 4–7]	E1		
Represent patterns and functions using words and tables. [Q# 5–7]	E2		

Yes . . .

Yes, but . . .

No, but . . .

No . . .

	Yes . . .	Yes, but . . .	No, but . . .	No . . .
<b>MPE2. Find a strategy.</b> I choose good tools and an efficient strategy for solving the problem. [Q# 7]				
<b>MPE5. Show my work.</b> I show or tell how I arrived at my answer so someone else can understand my thinking. [Q# 6–7]				