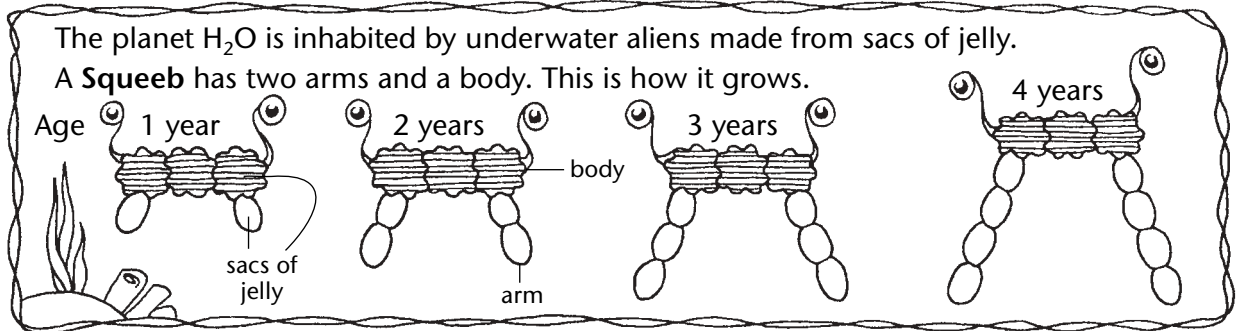


C



1. Complete the table by counting the sacs of jelly and continuing the sequence.

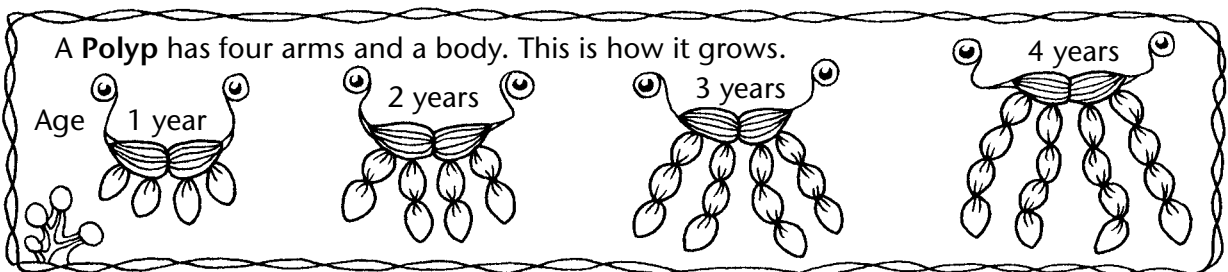
Age of Squeeb (in years)	1	2	3	4	5	6
Number of sacs of jelly	5					

2. How many sacs of jelly make up the body of each Squeeb? _____

3. How many sacs of jelly are in each arm of a:

(a) 1-year-old Squeeb? 1 (b) 2-year-old Squeeb? _____ (c) n -year-old Squeeb? _____

4. Explain how you know that the **position-to-term rule** for this sequence is $2n + 3$.



5. Complete the table by counting the sacs of jelly and continuing the sequence.

Age of Polyp (in years)	1	2	3	4	5	6
Number of sacs of jelly						

6. How many sacs of jelly make up the body of each Polyp? _____

7. How many sacs of jelly are in each arm of a:

(a) 1-year-old Polyp? _____ (b) 2-year-old Polyp? _____ (c) n -year-old Polyp? _____

8. Explain how you know that the **position-to-term rule** for this sequence is $4n + 2$.

NOW TRY THIS!

- Draw your own breed of underwater alien. Use a constant number of sacs for the body. Decide how many arms it has and how they will grow.
- Write your number sequence. Work out the position-to-term rule using n .



You can use the letter n to stand for any number to show a general rule. If, for example, you notice that a 2-year-old creature has 2 sacs per arm, a 3-year-old has 3 sacs per arm and so on, you can say that an n -year-old creature has n sacs per arm.