

Approach: Station

Year: 4 & 8

Focus: Constructing a graph

Resources: Circle to start graph in recording book, 3 butterflies, ruler, 5 spiders, 2 caterpillars, ruler

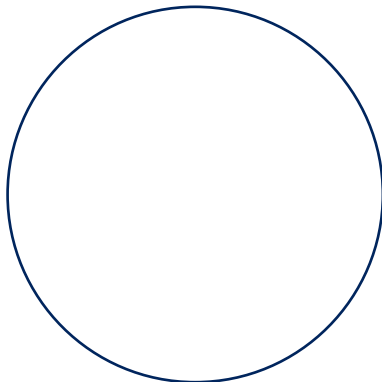
Questions / instructions:

There are 10 bugs in the bag.

There are caterpillars, butterflies and spiders.



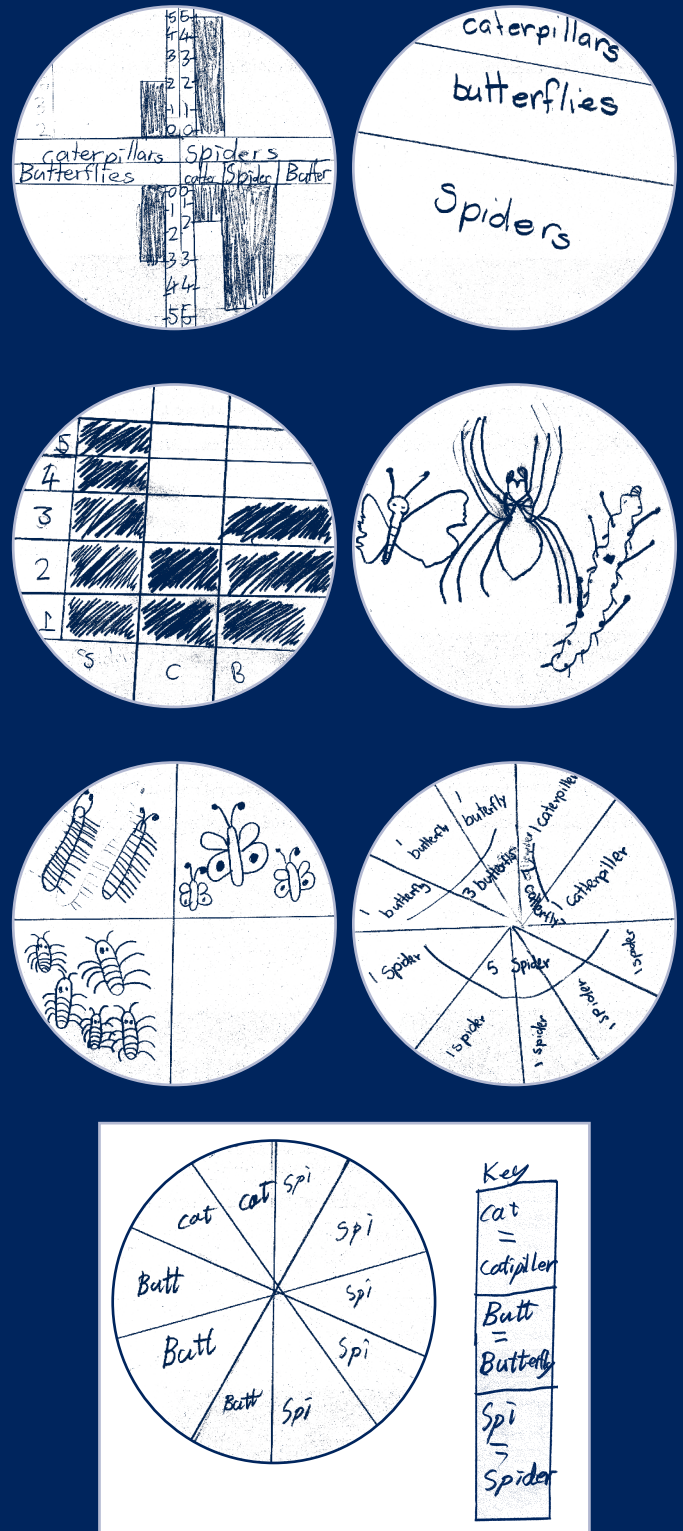
Make a pie graph to show the different types of bugs.



	year 4	year 8
diagram uses sectors	40 (49)	96 (97)
sectors labelled accurately	34 (61)	89 (94)
3 sectors of correct proportions	7 (0)	62 (62)
3 sectors, but proportions incorrect	17 (23)	21 (23)
10 sectors	5 (6)	3 (6)
Total score:	6	7 (8)
	4-5	19 (17)
	2-3	10 (18)
	0-1	64 (57)
		7 (6)

% responses
2003 ('99)

YEAR 4 EXAMPLES:



Commentary:

Year 8 students can construct a pie graph more successfully than year 4 students. Sixty-one percent of year 8 students compared to seven percent of year 4 students constructed the pie chart quite accurately. Little change in performance was noted between 1999 and 2003.