

MYRIAPODS

1 All living organisms are placed into groups according to their features. Myriapods are one of the main groups of arthropods.

(a) State **two** features of myriapods that can be used to distinguish them from other arthropods.

1

2

[2]

Fig. 1.1 shows that there are four main groups of arthropods.

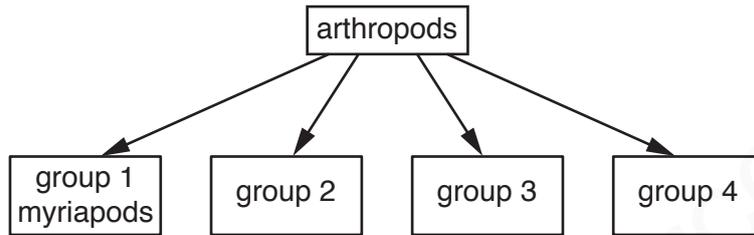


Fig. 1.1

(b) State the names of **two** of the other groups of arthropods in Fig. 1.1.

1

2

[2]

(c) Myriapods can be classified into four classes, **1, 2, 3** and **4**.

Fig. 1.2 is a dichotomous key that can be used to distinguish the four classes of myriapods.

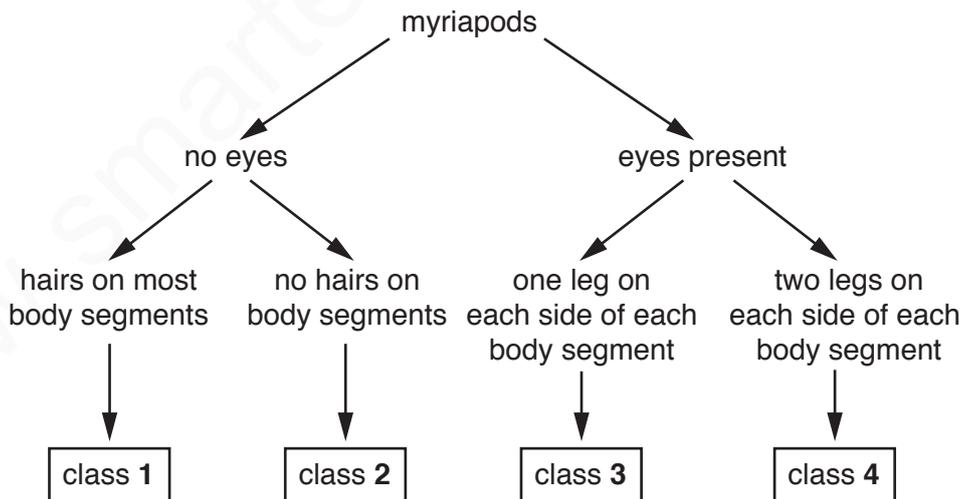


Fig. 1.2

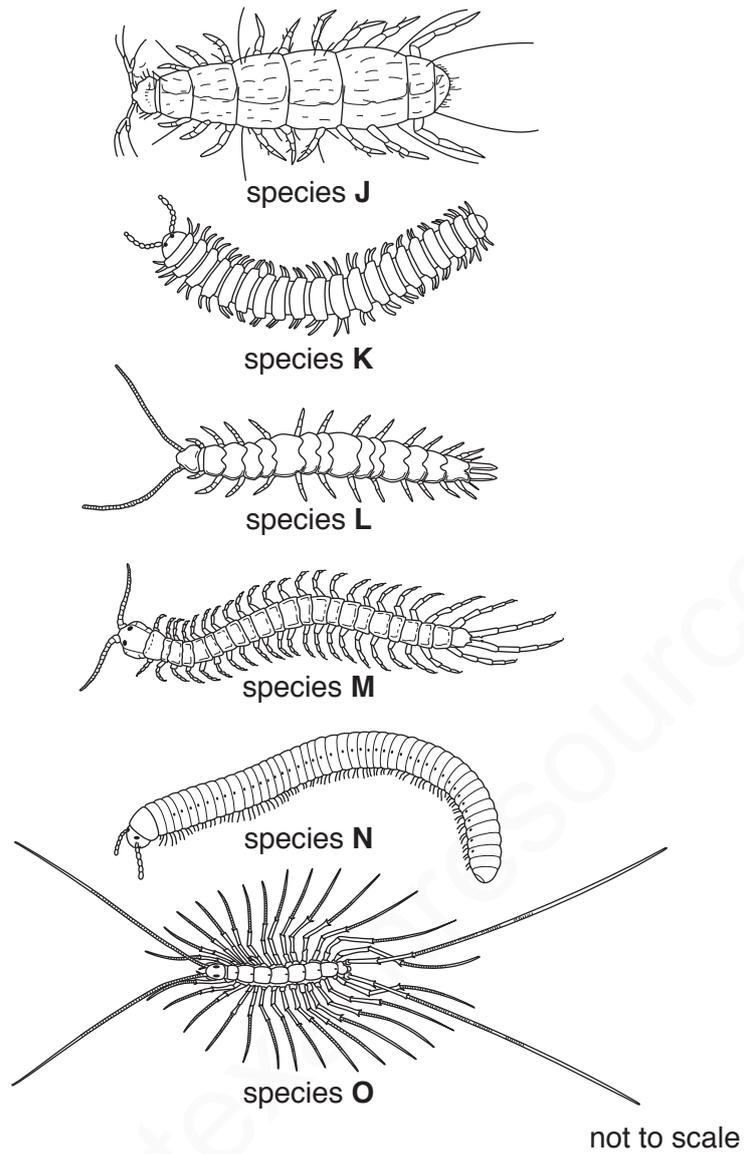


Fig. 1.3

Complete Table 1.1 by using the key in Fig. 1.2 to classify the six myriapods in Fig. 1.3 into the four classes.

Table 1.1

class	letter(s) of species from Fig. 1.3 in each class
1	
2	
3	
4	

[3]

[Turn over

(d) Fig. 1.4 is a photograph of the myriapod, *Apheloria virginensis*.



Fig. 1.4

(i) State the genus name and kingdom name for the myriapod shown in Fig. 1.4.

genus

kingdom

[2]

MARKING SCHEME:

1(a)	many (body) segments ; head and, body (segments) / AW ; many legs / many pairs of legs; elongated bodies ;	2											
1(b)	crustaceans ; arachnids ; insects ;	2											
1(c)	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>class</th> <th>letter(s) of species from Fig. 1.3 in each class</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>J</td> </tr> <tr> <td>2</td> <td>L</td> </tr> <tr> <td>3</td> <td>M,</td> </tr> <tr> <td>4</td> <td>K,N,O</td> </tr> </tbody> </table> <div style="text-align: right;">⋮</div>	class	letter(s) of species from Fig. 1.3 in each class	1	J	2	L	3	M,	4	K,N,O	3	4 rows correct = 3 2 or 3 rows correct = 2 1 row correct = 1
class	letter(s) of species from Fig. 1.3 in each class												
1	J												
2	L												
3	M,												
4	K,N,O												
1(d)(i)	(genus) <i>Apheloria</i> ; (kingdom) animal ;	2											
1(d)(ii)	no (aerobic) respiration ; ora cannot release energy ; ora	1											