LI to select numbers from a table and multiply them.

Success Criteria	Self-
	assess
I can find the numbers I need in the table.	
I can multiply them correctly.	
I can say what my answer means in the real-world situation.	

River Health



Olivia is a scientist who studies rivers. She is investigating how healthy two rivers are by looking at the invertebrates living in them.

Each invertebrate is given a score based on how well

it can survive pollution

- Animals that live only in clean water = high score
- Animals that can live in dirty, polluted water = low score

Now, let's use the table to work out how healthy the river is:

- 1) **Multiply**: Take each animal's pollution score and multiply it by how many were found.
- 2) Write it down: Fill in the last column with your answers.
- 3) Add it up: Add up all the numbers in the number found column and in the last
- 4) **Match your answer** to the water quality scale below to see how healthy or unhealthy the river is.

Water Quality scale:

River Health	0-1.9	2-3.9	4-5.9	6-7.9	8-10
Water Quality	Very Poor	Poor	Moderate	Good	Very Good

River Nith

Invertebrate	Pollution score	Number found in River	Total
Freshwater Shrimp	4	166	4 x 166 = 264
Water Louse	4	88	
Leech	3	65	
Snail	2	140	
Beetle	5	118	
Worm	1	215	
Pond Skaters	5	60	
Water boatman	5	120	
	Total		

LI to select numbers from a table and multiply them.

Now, let's work out the river's health score

1)	Add up all the "Number Found" to get the total animals	s =		
2)	Add up all the " Total Scores " from the last column =			



4)	What is the river Nith's Water quality value? =	

3) Divide the total score by the total number of animals for **River Health Score** =

Compare with the River Dee

Repeat the same steps for the River Dee table

River Dee

Invert	ebrate	Pollution score	Number found in river	Total
Water Boatman		5	12	
Snail	6	3	22	
Beetle		6	54	
Limpet		8	14	
Freshwater Crayfish		10	24	
		Total		

LI to select numbers from a table and multiply them.

1.	animals) =	core? (Kemember:	divide the total s	core by the total number o
2.	What is the water quality	value? (use the sca	ale on page 1) =	
("Thank you! Which river is healthier?"	3) The healthiest ri	ver =	