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

Each invertebrate is given a score based on how well it can survive pollution

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

- 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 below 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 column
- 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	5	3	5 x 3 = 15
Water Louse	3	5	
Limpet	8	4	
Snail	3	7	
Beetle	4	2	
Worm	1	9	
	Total		

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

1)	Add up all the "Number Found" to get the total animals =	
2)	Add up all the " Total Scores" from the last column =	
3)	Divide the total score by the total number of animals for River Heal t	th Score =

"Now check the Water Quality scale! Match your score to see how clean or dirty the water is!"



4. What is the river Nith's Water Quality value? =

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LI to select numbers from a table and multiply them.

Compare with the River Dee

Repeat the same steps for the River Dee table

River Dee

Invertebrate	Pollution score	Number found in river	Total
Stonefly larvae	9	3	
Pond Skater	5	9	
Freshwater Crayfish	10	9	
Cased caddisfly larvae	7	2	
	·	Total =	

1.	What is the river heal number of animals) =		ore? (Remember: divide the total score by the total	
2.	What is the water qua	ality va	alue? (use the scale above) =	
		3.	The heathiest river =	

