

Year 10 Statistics Work

Work on two-way tables and Venn diagrams in your exercise book. This will be checked when you return and all questions should be corrected and marked.

Task 1 – 30 minutes – choose the questions to complete

<https://www.mathsgenie.co.uk/resources/3-two-way-tables-ws.pdf>

Mark using the solutions

<https://www.mathsgenie.co.uk/resources/3-two-way-tablesans.pdf>

Task 2 – 30 minutes - choose the questions to complete.

<https://corbettmaths.com/wp-content/uploads/2013/02/venn-diagrams-pdf.pdf>

Mark using these solutions

<https://corbettmaths.com/wp-content/uploads/2015/03/venn-diagrams-answers.pdf>

If time try these:

Q1. 76 students were asked if they wanted to eat a burger, a hotdog or a vegetable wrap.
 The students are split of girls and boys is equal.
 18 of the boys wanted a burgers and 5 wanted a wrap.
 The number of girls eating hotdogs is one more than the boys.
 A total of 7 people had the wrap.
 Draw a two-way table to display all of the options.

Q2. (a) Complete the two-way table.

	Cycling	Running	Swimming	Total
Year 9	7		11	25
Year 10		23		
Year 11	1		9	
Total	12	68		100

(b) What are the two variables?

Q3. (a) Work out the value of x .

		Video Game Genre			
		RPG	FPS	MMO	Total
Age	0-9	$12x - 1$	$5x$	$x - 12$	
	9-16	$2x - 5$	$5x + 5$	$x - 3$	
	16+	$2x + 9$	$14x + 9$	x	
	Total			$2x$	$52x + 2$

(b) Use the value of x to complete the table.

(c) What is misleading about the data?

Answers will be given to you in the lesson!