



GCSE Maths Takeaway 45 - Two Way Tables

Name:

Date:

The Table shows information about the language and humanities subjects picked by students in year 9 for their GCSEs

How many pupils are there in year 9?

	Germany	French	Total
History	104		150
Geography		60	
Total	180		

A) B)

C) D)

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Correct Answer: A B C D

Explanation:

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350 people were asked their age and favourite sport (out of tennis, football and waterpolo). The results are shown in the table

How many people between the age of 20-40 liked football the best?

	0-20 years	20-40 years	40+ years	Total
Tennis	30	51		109
Football	43		50	124
Water polo	35	42		
Total				

A) B)

C) D)

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Correct Answer: A B C D

Explanation:

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Follow up Questions for Edexcel GCSE – June 2014 – Higher – Paper 1 – Question 3

Janice asks 100 students if they like biology or chemistry or physics best.

38 of the students are girls.
21 of these girls like biology best.
18 boys like physics best.
7 out of the 23 students who like chemistry best are girls.

Work out the number of students who like biology best.

Where do we put "21 of these girls liked biology the best?"

	Biology	Chemistry	Physics	TOTAL
Girls	B			D
Boys	C			62
TOTAL	A			100

Correct Answer: A B C D

Explanation:

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Eastview Junior High students order sweatshirts and T-shirts in either purple or gold. Of the students who ordered a sweatshirt, the relative frequency of ordering a gold one is half of the relative frequency of ordering a purple one. Which two-way table could show the data from the orders?

A. Sweatshirt and T-Shirt Orders

	Sweatshirt	T-Shirt
Purple	12	18
Gold	24	15

B. Sweatshirt and T-Shirt Orders

	Sweatshirt	T-Shirt
Purple	28	26
Gold	22	44

C. Sweatshirt and T-Shirt Orders

	Sweatshirt	T-Shirt
Purple	70	17
Gold	35	93

D. Sweatshirt and T-Shirt Orders

	Sweatshirt	T-Shirt
Purple	45	50
Gold	25	25

Correct Answer: A B C D

Explanation:

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Rudy surveyed 80 people about whether they prefer blueberry or cherry pie and whether they prefer the pie with or without ice cream. The results are shown in the table below.

Pie and Ice-Cream Preferences

	Blueberry Pie	Cherry Pie
With Ice Cream	29	24
Without Ice Cream	15	12

Which conclusion can be made based on the results shown in the table?

A. About $\frac{1}{3}$ of the people prefer pie without ice cream.

B. There are 2 times as many people who prefer blueberry pie to cherry pie.

C. Fewer people prefer cherry pie with ice cream than blueberry pie without ice cream.

D. The ratio of people who prefer blueberry pie to cherry pie is equivalent to the ratio of people who prefer pie with ice cream to pie without ice cream.

Correct Answer: A B C D

Explanation:

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