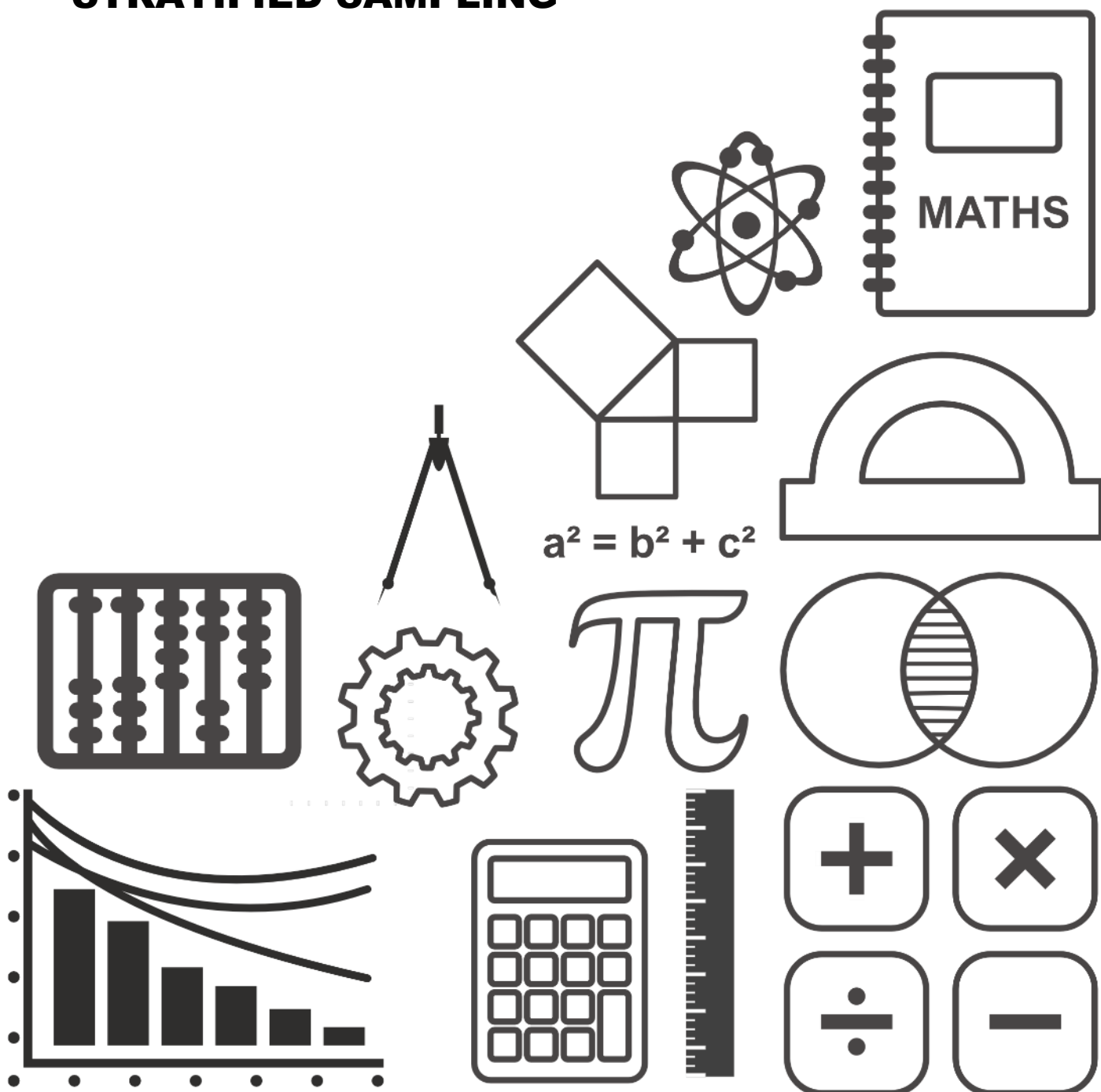


MATHSDIY

GCSE TOPIC BOOKLET STRATIFIED SAMPLING



An international clothing manufacturer employs people in Peru, Mexico, Finland, Thailand and Vietnam.
The number of people employed by the clothing manufacturer in each country is given in the following table.

Country	Number of employees
Peru	564
Mexico	346
Finland	320
Thailand	2130
Vietnam	3450

The clothing manufacturer is arranging a fashion show and decides to invite a total of 18 employees to represent all the employees in the five countries.

Use a stratified sampling method to calculate how many people from each country should be invited to the fashion show.

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[4]

3.

A European supermarket employs people from a number of countries. The number of people employed by the company in each country is given in the following table.

Country	Number of employees
Germany	12 355
France	8340
Spain	6860
Italy	4100
United Kingdom	3045

The company is organising a conference and decides to invite a total of 45 employees to represent the views of the entire workforce.

Use a stratified sampling method to calculate how many people from each country should be invited to the conference.

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[4]

6. Circle TRUE or FALSE for each of the following statements.

[2]

Selecting the first name on each class register will give a random sample.	TRUE	FALSE
The ratio of boys to girls in a school is 2 : 3. The pupil committee of 30 pupils is selected using a gender stratified sample. There are 10 boys and 20 girls on the school committee.	TRUE	FALSE
A telephone survey is carried out to find which political party people support. The sample of people surveyed is not a random sample of the whole population.	TRUE	FALSE
A stratified sample always considers proportions according to given criteria.	TRUE	FALSE
A random sample of people means everyone has an equal chance of being selected.	TRUE	FALSE