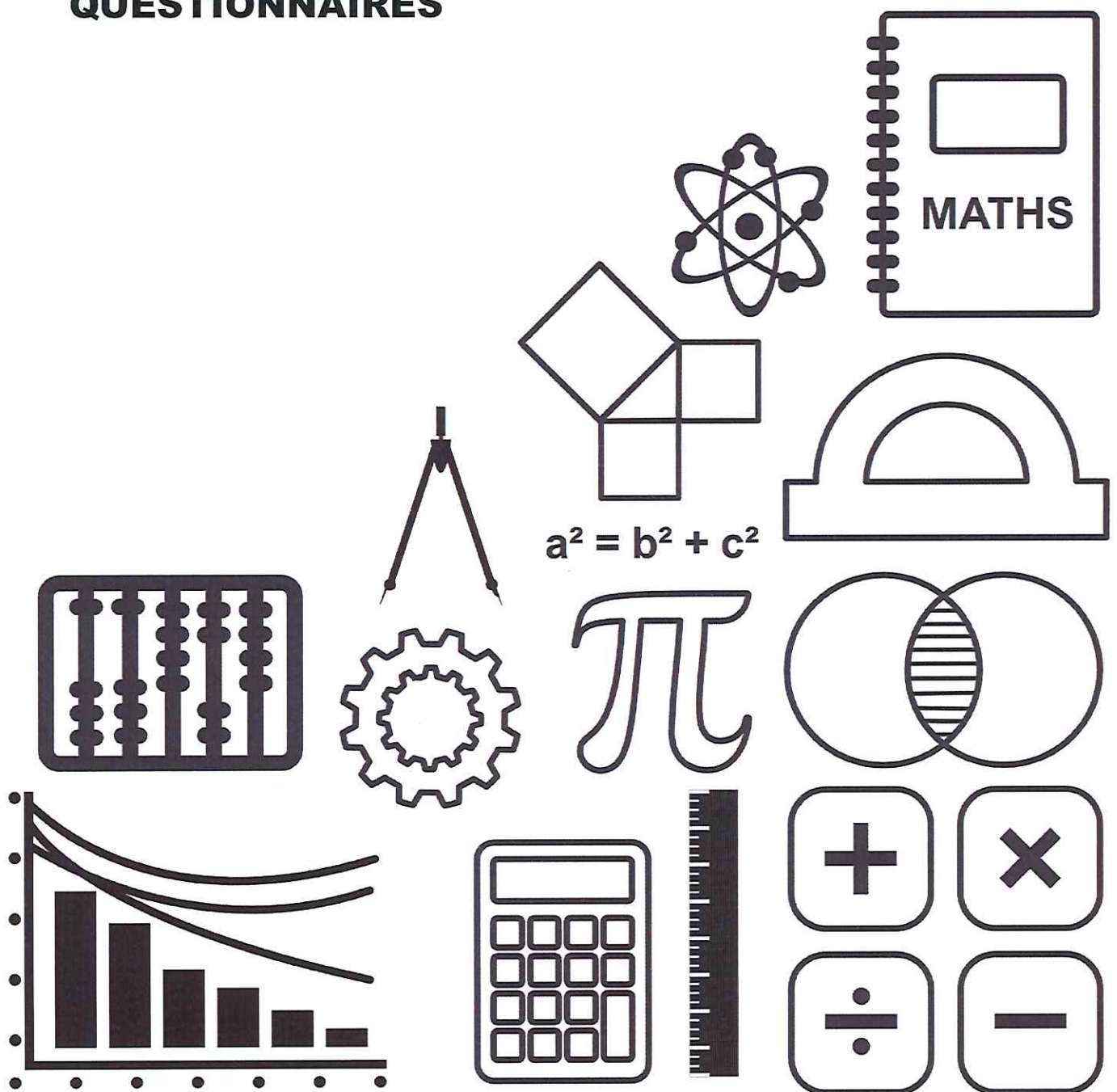


SOLUTIONS

GCSE TOPIC BOOKLET QUESTIONNAIRES



1.

A survey was carried out to find how often teenagers buy DVDs.

The following two questions were asked in a questionnaire.

Q1. Where do you live?			
Q2. How often do you buy DVDs?			
Never	1-10 times	10-15 times	More than 15 times
☐	☐	☐	☐

(a) For each question give one reason why it is not suitable.

[2]

Q1. Not relevant (inappropriate)
(not about where you live)

Q2. No time frame (per week/month etc)
o/ times not exclusive
o/ vague

(b) The survey was carried out by leaving copies of the questionnaire on the DVD shelves in a supermarket.

Give one criticism of how the survey was carried out.

[1]

- biased because it is on DVD shelves
- poor distribution method
- does not target teenagers

any of these

A survey is carried out by asking people questions as they come out of a juice bar.



A section of the questionnaire is shown below.

In questions 1 and 2 put a tick (✓) in a box

1. How old are you?

15 to 20 ☐ 21 to 30 ☐ 30 to 40 ☐ 41+ ☐

2. Do you ever go to the juice bar to buy a fruit drink?

Yes ☐ No ☐

3. What method of payment do you use?

(a) Explain why this is a biased survey.

[1]

• outside the juice bar
(or mostly younger people use juice bars)

(b) State two criticisms of the design of question 1.
First criticism of question 1:

[1]

No under 15s

Second criticism of question 1:

[1]

30 appears in two boxes

or, may object to giving their age

(c) (i) What is wrong with the design of question 3? [1]

(one of these) • Vague • open question
• no options • Can't display answers clearly

(ii) Show how question 3 could be improved. [1]

give tick box options eg cash ☐
credit card ☐
apple pay ☐ etc

A survey was carried out in Newcastle in the north of England.

The following two questions were asked.

Q1. Do you think it is right to play all of England's international matches down in London, which makes it difficult for people from the north of England to attend?

YES ☐ NO ☐

Q2. How often have you visited the new Wembley stadium in London?

1-5 times

☐

6-10 times

☐

10 or more times

☐

(a) Write down one criticism of the first question. [1]

Biased / leading question

(b) Give two reasons why the second question is not suitable. [2]

Reason 1 No box for zero visits

Reason 2 10 is in two boxes

or No time period indicated

4.

Martha wants to test the following hypothesis.

'More men than women buy a daily newspaper.'

She plans to

- hand out a short questionnaire at a Women's Institute meeting,
- ask the following questions in the questionnaire,

(i) How old are you?			
(ii) How often do you buy a newspaper?			
Never		1-3 times	
		3-5 times	
		More than 5 times	

- collect their replies at the next meeting.

Write down three unfavourable comments about this plan.

[3]

1. question (i) their age is not relevant

2. question (ii) no time frame indicated
(per month/year etc)

3. not representative of the population

people might well forget to return them
at the next meeting

might be different people in the next
meeting

(any 3 of the above)

5.

Nerys wants to test the following hypothesis.

'Dog owners are fitter than the average person.'

She plans to:

- hand out a short questionnaire between 9 a.m. and 10 a.m., as people arrive at a local dog show,
- ask the following questions in the questionnaire,

(i) How fit are you?

(ii) How often do you walk your dog?

1–5 times

6–10 times

10 or more times

- collect the completed questionnaires between 4 p.m. and 5 p.m., as people are leaving the dog show.

Write down three unfavourable comments about this plan.

[3]

1. biased
or not representative of population

2. No box for people who never walk a dog / do not have a dog

3. 10 is in two boxes

No time frame indicated

fitness not defined / vague

people might have left the show before 4pm or might arrive after 10am

(any three of the above)

6.

A survey is to be carried out to investigate how popular earphones are with different age groups of the general population.
The survey is carried out by asking people questions as they come out of an electronics and phone shop.
Two questions from the survey questionnaire are shown below.

1. How old are you?	
Put a tick in the box	under 10 ☐
	10 to 20 ☐
	30 to 40 ☐
	40 to 50 ☐
	Older than 50 ☐
2. Do you own earphones?	
Put a tick in the box	Yes ☐
	No ☐

- (a) Explain why this is a biased survey. [1]

outside the phone/electronics shop

- (b) State 2 criticisms about the design of question 1 in the survey.

First criticism:

[1]

no option for some ages eg 25
(no option (over) 20 to (under) 30)

Second criticism:

[1]

two boxes for 40 year olds

- (c) Write a question, with a selection of answer boxes, to find out how much people are prepared to pay for earphones. [2]

eg

How much money would you be prepared to pay for earphones? (To the nearest £)

Less than £30	☐
£30 - £39	☐
£40 - £49	☐
More than £49	☐

7.

In a Park and Ride scheme, people leave their cars on the outskirts of a town and travel into town by bus.

A survey was carried out to decide if a town should start a Park and Ride scheme.

Shoppers in the town were asked the following four questions.

Q1. Did you travel into town by car?

YES ☐ NO ☐

Q2. What type of car do you have?

.....

Q3. Was it easy to find a place in town to park your car?

YES ☐ NO ☐

Q4. How many times would you use a Park and Ride, if available?

1-5 times 6-10 times more than 10 times less than 20 times

☐ ☐ ☐ ☐

- (a) Which one of the first three questions would you remove?
You must give a reason.

[1]

question 2 is not relevant

- (b) Give two reasons why question 4 is not suitable.

[2]

Reason 1 No box for never

Reason 2 More than 10 and less than 20 are not exclusive

or (18 could go in two boxes for example)

or less than 20 overlaps all the other three answers

or No time period specified.

Gareth wants to test the following hypothesis.

'Most people spend more than 2 hours per night watching television.'

He plans to

- hand out a short questionnaire to people at the local fitness centre,
- ask the following questions,
 - (i) Do you think people watch too much television?
 - (ii) How much time do you spend watching television?
- ask them to post their completed questionnaire using a pre-paid envelope.

Write down **three** unfavourable comments about this plan.

1. Not representative of the population

leading question

2. what is meant by too much?

3. does not specify over what time period

better with tick boxes

[3]

Might get a poor return rate / people
will forget (can't be bothered) to complete
and post it back.

Any three valid comments

9.

A survey was carried out to find whether people preferred watching sport programmes or crime programmes on television.

The following three questions were asked.

Q1. What is your address?

Q2. What type of TV programme do you prefer? Tick one box.

Sport

☐

Crime

☐

Q3. How many hours do you spend watching television?

less than 1 hour

☐

1-5 hours

☐

more than 5 hours

☐

more than 10 hours

☐

(a) Give one reason in each case to explain

(i) why Q1 is not suitable

[1]

not relevant / too personal

(ii) why Q3 is not suitable.

[1]

over what time frame?

or more than 5 and more than 10 are not exclusive.

(b) The survey was carried out by questioning people leaving a football ground one Saturday afternoon.

Give one criticism of how the survey was carried out.

[1]

The location is a 'football ground' and could therefore give a biased result.

or

One afternoon would not provide a large enough sample.