

*للحصول على أوراق عمل لجميع الصفوف وجميع المواد اضغط هنا

https://almanahj.com/ae

* للحصول على أوراق عمل لجميع مواد الصف السابع اضغط هنا

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* للحصول على جميع أوراق الصف السابع في مادة رياضيات ولجميع الفصول, اضغط هنا

https://almanahj.com/ae/7math

* للحصول على أوراق عمل لجميع مواد الصف السابع في مادة رياضيات الخاصة بـ الفصل الثالث اضغط هنا

https://almanahj.com/ae/7math3

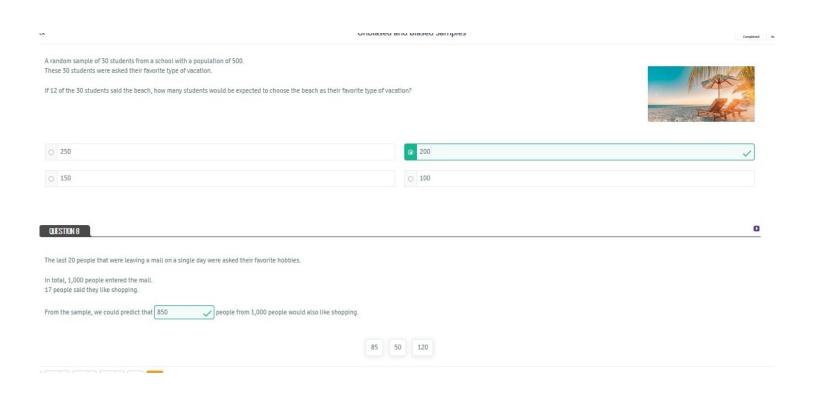
* لتحميل كتب جميع المواد في جميع الفصول للـ الصف السابع اضغط هنا

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https://t.me/almanahj_bot





The last 40 people that were leaving a mall on a single day were asked their favorite hobbies.

In total, 2,000 people entered the mall. 30 people said they like shopping.

1. From the sample, we can predict that $\boxed{\text{1,500} \checkmark \checkmark}$ people like shopping.

2. This survey will generate $\boxed{\text{biased } \checkmark \checkmark}$ samples.



QUESTION TO

Aziz is surveying his friends to find what sports they like.

Aziz writes down all his friends on a list. He has 60 in total.

He decides to ask every $3^{\rm rd}$ friend as they arrive into school.



QUESTION 1D

Aziz is surveying his friends to find what sports they like.

Aziz writes down all his friends on a list. He has 60 in total.

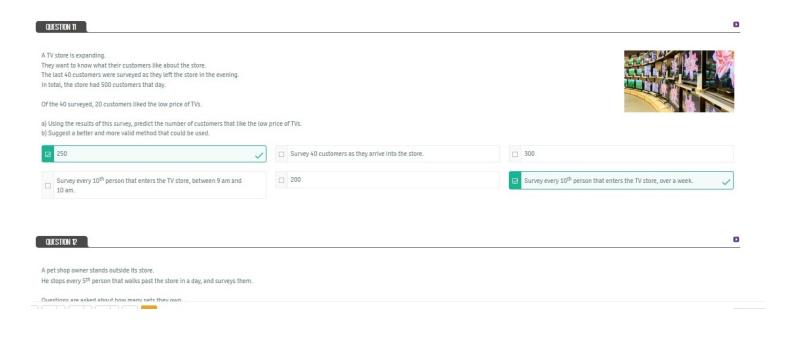
He decides to ask every $3^{\rm rd}$ friend as they arrive into school.

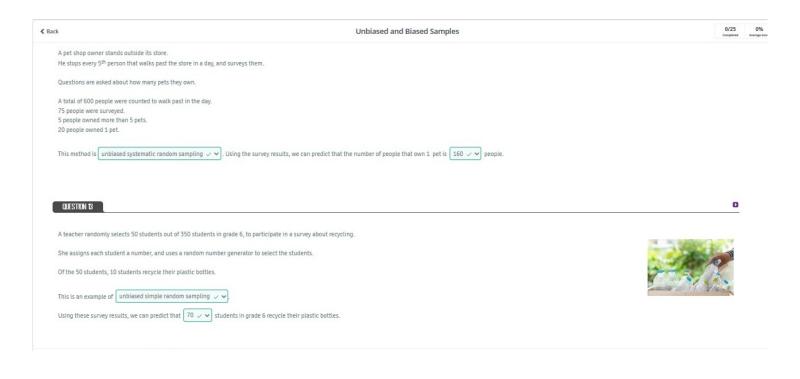
From a sample of 15 friends, 3 of his friends like boxing.

This method is unbiased systematic sampling.

Using the survey results, we can predict that 12 of Aziz's friends will like boxing.







Ahmed invites all his 30 friends to come, and play at his house. A simple random sample was conducted. Ahmed surveys 5 friends, asking their favorite game.		
3 of the 5 friends say football games.		
Therefore, Ahmed can predict that $\fbox{18 \lor \lor}$ friends will choose football games as their favorite	e game.	
COLESTION 15		D
QCLDTRAY ID		
Ahmed is inviting all his 20 friends to come and play at his house.		
A simple random sample was conducted.		
Ahmed surveys 5 friends, asking their favorite game. If 4 of the 5 friends said computer games, how many friends can we predict will choose compute	r games as their favorite game?	
	✓ 0 14	
<u>.</u>	V	
O 20	O 18	
CHECKEN CO.		0

A systematic random sample of 50 customers was taken, at desserts shop.

In a single day, the shop had 650 customers.
These 50 customers were asked their favorite dessert.

If 12 of the 50 customers said waffles, how many customers should we expect to name waffles as their favorite dessert ?

We can predict that 156 customers will name waffles as their favorite dessert.





QUESTION 17

A systematic random sample of 50 customers was taken, at desserts shop.

In a single day, the shop had 650 customers. These 50 customers were asked their favorite dessert.

If 25 of the 50 customers said ice-cream, how many customers should we expect to name ice-cream as their favorite dessert?



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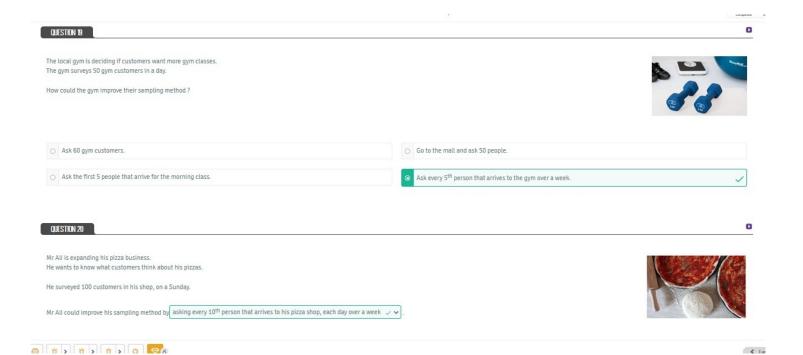
A systematic random sample of 50 customers was taken, at desserts shop. In a single day, the shop had 650 customers. These 50 customers were asked their favorite dessert.		
If 25 of the 50 customers said ice-cream, how many customers should we expect to name ice-cre	eam as their favorite dessert?	
○ 350	O 300	
0 375		

0

The local gym is deciding if customers want more gym classes. The gym surveys 10 gym customers in a day.

The gym could improve their sampling method by asking every 5th person that arrives each day to the gym, over a week 🗸 🗸





Mr All its expanding his pizza business.
He wants to know what customers think about his pizzas.
He wants to know what customers in his shap in a day.

How could Mr All improve his sampling method?

Ask every 10th person that arrives to his pizza shop over a week.

Ask the last 10 people that leave the pizza shop on a day.

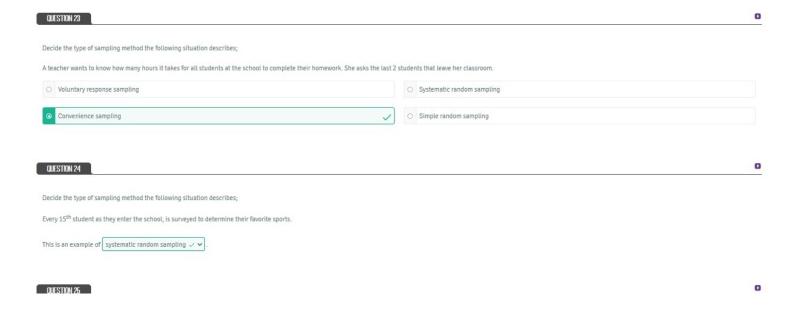
O Ask 100 people at a desserts shop.

Ask 50 customers that arrive to his shop in a day.

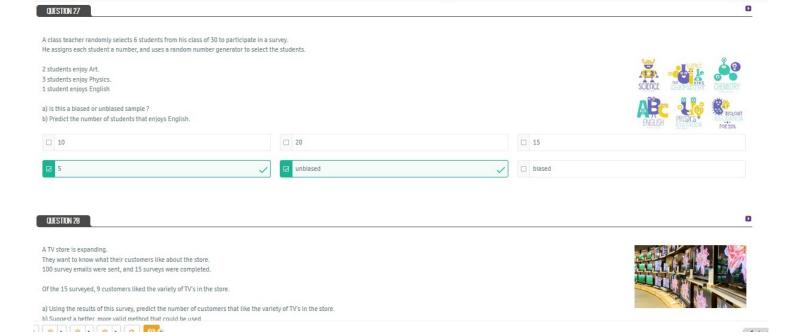
Decide the type of sampling method the following situation describes;

A teacher wants to know how many hours it takes for all students at the school to complete their homework. She asks the first 5 students that enter her classroom.

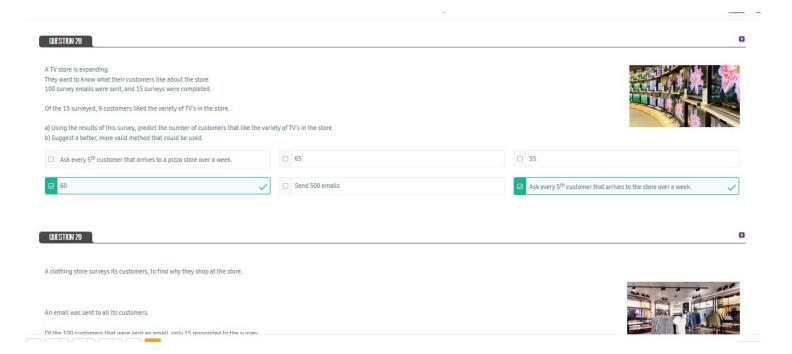
This is an example of convenience sampling.



very 3 rd student as they enter the school, is surveyed to determine student:	s' favorite colors.			
Simple random sampling		Convenience sampling		
Systematic random sampling	~	O Voluntary response sampling		
QUESTION 26				
lass teacher randomly selects 6 students from his class of 30 to find out y	what their favorite subjects are			
assigns each student a number, and uses a random number generator to				
assigns each student a number, and uses a random number generator to tudents enjoy Art. tudents enjoy Physics.				
assigns each student a number, and uses a random number generator to students enjoy Art. students enjoy Physics.				SCIENCE CHANGE
class teacher randomly selects 6 students from his class of 30 to find out a assigns each student a number, and uses a random number generator to students enjoy Art. students enjoy Physics. student enjoys English Predict the number of students that enjoy Art.				SOUTH CHAMSEN OF THE STREET
assigns each student a number, and uses a random number generator to students enjoy Art. students enjoy Physics. student enjoys English				SCIÈNCE CALEMAN OLEMANIR
assigns each student a number, and uses a random number generator to udents enjoy Art. udents enjoy Physics. udent enjoys English Predict the number of students that enjoy Art.		ected.	☑ 10	



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QUESTION 30

Every 3^{rd} student is asked which sports club they will join as they enter the gym.

There is a total of 36 students in this class.

From a sample of 8 students, 6 will join the basketball club.

Using the results of this survey, we can predict that the 27 students will join the basketball club.



QUESTION 31

 $\label{lem:Acar company surveys} A \ car \ company \ surveys \ its \ customers, \ asking \ about \ their \ favorite \ car \ colors.$

The company emails its 2,000 customers, and 200 respond to the survey.



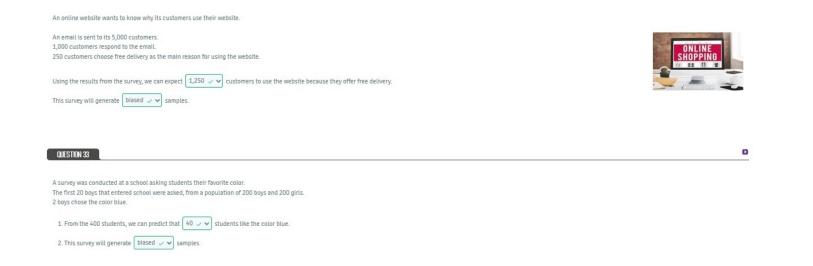


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QUESTION 31	0
A car company surveys its customers, asking about their favorite car colors.	
The company emails its 2,000 customers, and 200 respond to the survey.	
From the 200 that answered, 10 customers like the color yellow.	
Using the results of this sample, we can predict that only 100 customers are likely to choose the color yellow.	
The conclusion is not valid because the sample is biased .	
QUESTION 32	0
An online website wants to know why its customers use their website.	
An email is sent to its 5,000 customers.	ONLINE
1,000 customers respond to the email.	ONLINE



Intline

QUESTION 32

M * W W W W

Aziz loves football.

He surveys his friends to find out what sports his friends like.

Aziz sends 60 friends an email. 20 friends respond to his survey.

He finds that 16 of his friends like football.

This is biased voluntary response sampling. From the survey, Aziz can predict that 48 of friends like football too.

OURSITIONS

Mariam wants to know what flavor of cupcakes her customers like.

She asks every 10th customer that arrives over a week.
In total she gets 1,200 customer in the week.

QUESTION 36		0
Mariam wants to know what flavor of cupcakes her customers like. She asks every 10th customer that arrives over a week. In total she gets 1,200 customers in the week. From a sample of 30 customers, 20 like her chocolate cupcakes. a) Using the sample, predict the number of customers that will like her chocolate cupcakes.		
b) Select the type of sampling this survey describes. □ Convenience sampling	800	✓
750	Systematic random sampling	✓
□ 850	☐ Voluntary response sampling	
QUESTION 36		0

A book store surveys its customers, to find why they shop at the store.

An email was sent to all its customers.

A book store surveys its customers, to find why they shop at the store.

An email was sent to all its customers.

Of the 150 customers that were sent an email, only 15 responded.

 ${\bf 1}$ customer from the 15 that completed the survey, said they like the selection of books at the store.



From this sample, we can predict that 10

customers shop at the book store because they like the selection of books.

QUESTION 37

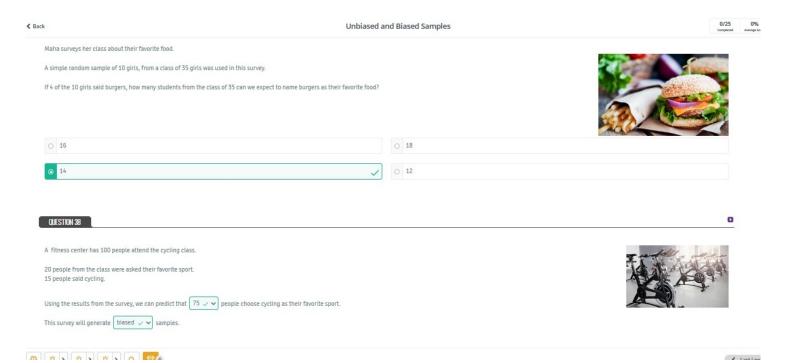
D

Maha surveys her class about their favorite food.

A simple random sample of 10 girls, from a class of 35 girls was used in this survey.

If 4 of the 10 oirls said burgers, how many students from the class of 35 can we expect to name burgers as their favorite food?





From the survey, 25 customers prefer the spicy pizza.
In total, 250 customers entered the shop on a single day.

1. From the 250 customers, we can predict that 125 v customers like the spicy pizza.

2. This survey will generate unbiased v samples.

ULSITIN 40

Which sampling method would give the most unbiased results, if you wanted to survey favorite vacation destinations by students at your school.

Ask 10 friends at your school.

Ask 100 random students from your school, of different ages.

Ask 100 random students from your school, of different ages.

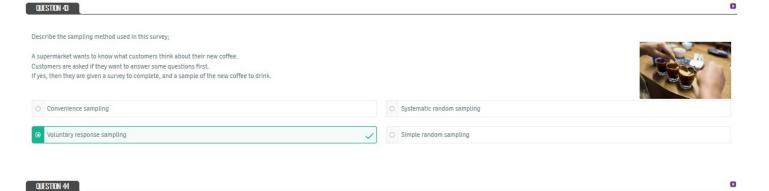
A survey was conducted at a pizza shop.

50 customers were surveyed.

QUESTION 41

Every $5^{\mbox{\scriptsize th}}$ customer was surveyed, to find out customers' favorite pizza.

Describe the sampling method used in this survey; A store wants to survey customers' favorite sneakers. The store asks every customer that buys something and the first 10 customers in the morning.		
Simple random sampling	© Convenience sampling	~
O Voluntary response sampling	Systematic random sampling	
Voluntary response sampling ULESTION 42	Systematic random sampling	0
	Systematic random sampling	
Describe the sampling method used in this survey; A parking lot wants to find how long people leave their cars in the parking lot.	○ Systematic random sampling Systematic random sampling	



Decide the type of sampling method the following situation describes;

Abdulla owns a juice and smoothie shop.

One morning, as he opens his shop, he decides to survey 3 customers that arrive to his shop.

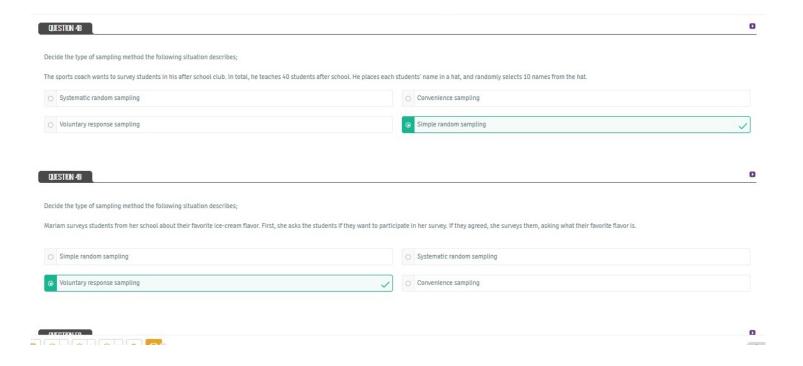
He uses the results of this sample, to change the juice and smoothie menu.



к	Unplased and Blased Samples	Completed
Decide the type of sampling method the following situation describes; Abdulla owns a juice and smoothie shop. One morning, as he opens his shop, he decides to survey 3 customers that arrive to his shop. He uses the results of this sample, to change the juice and smoothie menu.		
Systematic random sampling	O Voluntary response sampling	
○ Simple random sampling	○ Convenience sampling	~
QUISTON 46 Which sampling method would give the most unbiased results, if you wanted to find the number of	of people in your school that spent more than 4 hours completing their homework.	0
Ask 30 students in your Math and Science class.	O Ask 30 people that you meet at the mall	
Ask 30 random students from your school, of different ages.	✓ Ask 30 friends	

B

ecide the type of sampling method the following situation describes;		
cide the type of sampling method the following situation describes;		
upermarket is running a competition for it's customers. The prize is a sports car. As a	customer enters the supermarket, they are assigned a number. At the end of the week, the supermarket will use a random	number generator to pick its winners.
Voluntary response sampling	⊚ Simple random sampling	,
Systematic random sampling	Convenience sampling	
ESTION 47		
ide the type of sampling method the following situation describes;		
ide the type of sampling method the following situation describes; cacher surveys students from all her classes. She wants to know what is everyone's f		
ride the type of sampling method the following situation describes; tacher surveys students from all her classes. She wants to know what is everyone's f		
LISITIN 47 Lide the type of sampling method the following situation describes; Lacher surveys students from all her classes. She wants to know what is everyone's fit, she asks all the students if they want to participate in her survey. If they agreed, she convenience sampling		



	Unbiased and Biased Samples	Completed
Decide the type of sampling method the following situation describes;		
lariam surveys students from her school about their favorite ice-cream flavor. First, she asks the students if they	want to participate in her survey. If they agreed, she surveys them, asking what their favorite flavor is.	
○ Simple random sampling	Systematic random sampling	
	✓ Convenience sampling	
OUESTION 50		0
OURSITION SD Decide the type of sampling method the following situation describes; Sking every 10th customer that enters the mall, is surveyed to determine how long they spend shopping at a mal	п.	
ecide the type of sampling method the following situation describes;	II. Systematic random sampling	