

## أوراق عمل الدرس الأول Sample spaces الفضاءات العينية من الوحدة السابعة



### تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف العاشر العام ← رياضيات ← الفصل الثالث ← ملفات متنوعة ← الملف

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منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي | للمدرس

المزيد من مادة  
رياضيات:

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### التواصل الاجتماعي بحسب الصف العاشر العام



صفحة المناهج  
الإماراتية على  
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

### المزيد من الملفات بحسب الصف العاشر العام والمادة رياضيات في الفصل الثالث

حل أوراق عمل الوحدة 9 الاحتمالات والقياس

1

حل أوراق عمل الوحدة 8 التوسع في مساحة السطح والحجم

2

مقرر الدروس المطلوبة الفصل الثالث منهج بريدج

3

الخطة الفصلية لتوزيع المقرر منهج بريدج

4

أسئلة الامتحان الإعادة الالكترونية منهج ريفيل

5

## Objectives

To define sample spaces and describe subsets of sample spaces.

To apply the Fundamental Counting Principle to define sample spaces.

## Vocabulary

experiment -outcome -sample space -finite sample space -infinite sample space- event.

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An **experiment** is a situation involving chance.

An **outcome** is the result of a single performance or trial of an experiment.

A **sample space** is the set of all possible outcomes.

An **event** is a subset of the sample space.

## Define a Sample Space

① A fair die is tossed once.

a. What is the sample space of the experiment?

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b. What is the sample space for the event of rolling a prime number?

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## Represent a Sample Space

② Omar has a black hat and a red hat. He chooses one hat for each day, Saturday and Sunday. Represent the sample space for this experiment by making an organized list, a table, and a tree diagram.

Red hat: R

Black hat: B

## Organized List

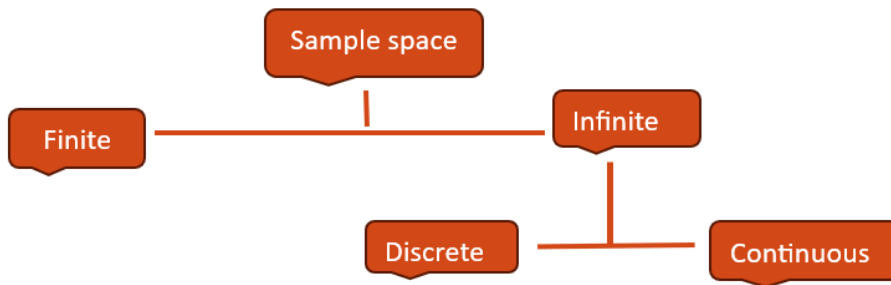
## Table

## Tree Diagram

③ A geometry teacher always breaks her class up into the red, yellow, and blue groups for class projects. Represent the sample space for the next two class projects by making an organized list.

$$S = \{ ( ), ( ), ( ), ( ), ( ), ( ), ( ), ( ), ( ) \}$$

### Sample space:



A finite sample space is sample space that contains a countable number of outcomes

An infinite sample space is sample space with outcomes that cannot be counted.

④ Classify each sample space as finite or infinite. If it is finite, write the sample space. If it is infinite, classify whether it is discrete or continuous.

- a. A marble is drawn from a bag that contains 3 orange marbles, 5 green marbles, and 4 blue marbles.

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- b. A spinner with four equal parts of green, blue, red, and yellow is spun until it lands on yellow.

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- c. A ball is thrown into the air and its height is recorded in inches.

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## Fundamental Counting Principle

The number of possible outcomes in a sample space can be found by multiplying the number of possible outcomes from each stage or event.

Course	Sections Offered
Art History	6
French	5
Mathematics	9
Art	4
English	6

5 Santiago lists the number of sections available for the courses he will take in his first semester at college. How many different schedules could Santiago create for this semester?

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6 Find the number of possible outcomes for each situation.

A) A video game lets you decorate a bedroom using one choice from each category

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Bedroom Décor	Number of Choices
Paint color	8
Comforter set	6
Sheet set	8
Throw rug	5
Lamp	3
Wall hanging	5

B) On a website showcasing outdoor patio plans, there are 4 types of stone, 3 types of edging, 5 dining sets, and 6 grills. Kamar plans to order one item from each category. How many different patio sets can Kamar order?

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7 The spinner shown is used in a board game. If the spinner is spun 4 times, how many different possible outcomes are there?



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## Homework

① Khalid's baby sister can drink either apple juice or milk from a bottle or a toddler cup. Represent the sample space for each experiment by making an organized list, a table, and a tree diagram.

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② For away games, the baseball team can wear blue or white shirts with blue or white pants. Represent the sample space for each experiment by making an organized list, a table, and a tree diagram.

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③ A lettered spinner with five equal parts is spun once.

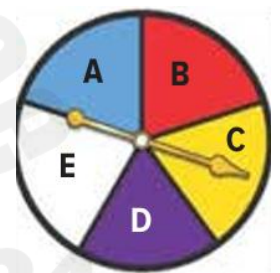
a. What is the sample space of the experiment?

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b. What is the sample space for landing on a vowel?

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