

6 HOMES OF THE FUTURE

NEW WORDS

The words in the following exercises appear in the text. Let's get to know them.

A. Match the words in column A with their translation in column B.

A	B
1. charity	a. ציוהו / قلوب
2. combination	b. שטפון, מבול / فيضان
3. construction	c. חומר / مادة
4. design	d. (ארגון) צדקה / (جمعية) خيرية
5. development	e. אוכלוסייה / عدد سكان
6. earthquake	f. עיצוב / تصميم
7. efficient	g. שלוב, צירוף / دمج
8. extreme	h. פיתוח / تنمية، تطوير
9. flood	i. רעידת אדמה / هزة أرضية، زلزال
10. material	j. עיל / فعال، مُجدي
11. pollution	k. קיצוני / منطريق
12. population	l. בנייה / بناء

B. Replace the words in bold with words from exercise A that have the same meaning. Make the necessary changes.

1. The **people living** in this town are not happy with the mayor's decisions. _____
2. Our secretary is **well-organized and able to do her job well**. _____
3. His success is the result of the **joining together** of talent, original thinking and hard work. _____
4. Our **organization for helping the poor** has provided shelter and food to many homeless people. _____
5. This year we have had **a very difficult** winter with storms and floods. _____
6. Your **plan** of the building is both beautiful and practical. _____

PART I: ACCESS TO INFORMATION FROM WRITTEN TEXTS

Read the text below and then answer questions 1-8.

HOMES OF THE FUTURE

I Are you one of those who keep thinking about buying a new home, but unfortunately can't afford one because prices keep rising all the time? Well, you are not alone. This situation is worrying for many families who have been working hard all their lives, saving money for that purpose and finding themselves unable to realize their dream. One of the reasons for the sharp 5 increase in the price of houses in recent years is the growing shortage¹ of housing all over the world.

II The reasons for it are varied². The population growth is one of the major causes. In Israel, for example, the population has grown from 3.7 million people in 1980 to 8.9 million in 2022. Another reason is natural disasters³ such as floods, hurricanes or earthquakes that cause people to 10 lose their homes. Many governments have been trying to deal with the situation, but it is very hard for the traditional construction industry to provide fast solutions to this problem.

III The new 3-dimensional (3D)⁴ printing technology may offer a solution. Since the beginning of the 21st century, scientists from different universities have been trying to apply this technology to construction. The development of industrial-sized 3D printers has made it possible to print 15 homes in 24 to 48 hours. The printing can be done on site or in a factory nearby. The printer prints the walls, leaving spaces for doors and windows. Then workers install⁵ the roof, plumbing⁶ and electricity.

IV The whole process is very fast and efficient. The house can be ready for use in a matter of a few weeks. Moreover, it is much cheaper and can save considerable sums of money because 20 it requires fewer workers and there is no waste of materials because the printer uses the exact amounts that are needed. This also prevents soil⁷ pollution which is often caused by the dumping⁸ of unused construction materials. In addition, the materials used for constructing such houses are often local, as well as eco-friendly⁹ and can resist¹⁰ extreme weather conditions. Finally, using a 3D printer in construction gives architects much greater freedom in planning the houses, because 25 the printer does exactly what it is instructed to do.

V Since 2016, 3D printed homes have been built in different locations such as Germany, Holland, America and China. Businessmen, charity organizations and governments have shown interest in such projects. It seems that the combination of creative design, eco-friendly materials and fast construction at low cost makes 3D printed houses the homes of the future.

GLOSSARY

1. shortage	מחסור / نقص	6. plumbing	צנרת, אינסטלציה / سباكة، تركيب الأنابيب
2. vary	לגון, לשונות / يختلف، يتباين، يتغافل	7. soil	אדמה / تربة
3. disaster	אסון / كارثة	8. dump	להשליך (פסולות) / يرمي، يطرح (نفايات)
4. 3-dimensional (3D)	תלת מימדי / ثالث الأبعاد	9. eco-friendly	didotot li-sabiba / غير ضار بالبيئة
5. install	להתקין / ينصب، يُركب	10. resist	לעמד בפני / يقاوم

QUESTIONS

Answer questions 1-8 in English, according to the text. In questions 1 and 4, circle the number of the correct answer. In the other questions, follow the instructions.

1. From paragraph I we learn why (-).
 - i) there is a shortage of housing
 - ii) people want to buy houses
 - iii) there is an increase in prices of housing
 - iv) people are able to buy new homes

2. What does the word "purpose" (line 4) refer to?

ANSWER: _____.

3. COMPLETE THE SENTENCE ACCORDING TO PARAGRAPH I.

"Hurricanes or earthquakes" (line 9) are mentioned as examples of natural disasters that are responsible for _____.

4. What do we learn about the traditional industry in paragraph II?

- i) Why it is responsible for the population growth.
- ii) Why it can't provide fast solutions to the shortage of housing.
- iii) Which problem it can't deal with fast enough.
- iv) How it provides solutions to natural disasters.

5. COMPLETE THE SENTENCE. (paragraph III)

Applying 3D printing technology to construction became possible when _____

_____.

6. Why is it important that "the printer uses the exact amounts" of materials (lines 20-21)? (paragraph IV)
PUT AN X BY THE TWO CORRECT ANSWERS.

_____ i) It saves a lot of money.
_____ ii) It gives the opportunity to plan the house.
_____ iii) It can deal with unexpected weather conditions.
_____ iv) It saves a considerable amount of time.
_____ v) It allows you to plan the process ahead of time.
_____ vi) Pollution caused by dumping unused materials is avoided.

7. What is presented in paragraph IV?

COMPLETE THE SENTENCE.

The benefits of _____.

8. "... low cost makes 3D printed houses the homes of the future" (line 29).

Give ONE fact from the article that explains why their cost is low.

ANSWER: _____.

ENRICHING YOUR VOCABULARY

A. Choose the correct answer.

1. The (**location / combination / solution**) of red and yellow forms orange.
2. The (**amount / design / cause**) of the accident is unknown. The police are still investigating this case.
3. If we save enough money, we will be able to (**afford / apply / instruct**) an electric car.
4. The (**solution / material / development**) of the 3D printer has greatly affected the fields of medicine, industry and construction.
5. Air (**population / pollution / solution**) is a serious global problem that should be dealt with before it is too late.
6. The (**construction / government / waste**) of the new building will start only next year. Meanwhile we have to find a place to rent.
7. Please (**deal with / afford / instruct**) me how to use this app.
8. In (**extreme / efficient / natural**) weather conditions it is advisable to stay at home.
9. The (**development / government / charity**) is trying its best to deal with the crisis caused by Covid-19.
10. It is estimated that in 2035 the (**population / waste / amount**) of Israel will be over 10 million people.

B. Choose the word that best completes the sentence.

1. I can't imagine how our world would function without _____.
 - a. population
 - b. earthquakes
 - c. electricity
2. The heavy rains caused a _____ in the valley that resulted in a lot of damage.
 - a. flood
 - b. construction
 - c. development
3. They looked for a _____ to the problem, but couldn't find any.
 - a. charity
 - b. solution
 - c. location
4. After we had been waiting for the bus for two hours, it _____ arrived.
 - a. finally
 - b. exactly
 - c. unfortunately
5. The teacher hoped the students would _____ what they had learned in class to their daily life.
 - a. instruct
 - b. afford
 - c. apply
6. There are different types of building _____ such as concrete, steel, wood or ceramic.
 - a. pollution
 - b. materials
 - c. combination

C. Fill in the missing word. Use the word bank. Make the necessary changes. There are more words than necessary.

amount • combination • such as • apply • design • exactly • century
construction • extreme • deal with • realize • major • local

1. The airplane was invented in the 19th _____ by the Wright brothers.
2. Is there a good restaurant nearby that serves _____ food?
3. A _____ of drama and humor made his book a success.
4. The local hospital can't _____ the shortage of specialists.
5. He knew _____ what he was doing and took full responsibility.
6. You will not gain weight if you only add a small _____ of sugar to your coffee.
7. Many people were attracted by the beautiful _____ of the car even more than by its speed.
8. Thanks to my efforts and talent I _____ my dream and became a very famous designer.
9. It's a _____ problem and we will have to find a solution by the end of the day.
10. Countries _____ Germany, Poland, Romania and Hungary welcome refugees from Ukraine.

Cloze Passage

Fill in the passage with the correct form of the words below. There are more words than necessary.

deal with • can't afford • material • extreme • natural • finally
whole • instruct • efficient • such as • cause • solution

TEST ANXIETY

Test anxiety is a (1) _____ feeling that you may experience. If the (2) _____ of your anxiety is lack of preparation, it is normal. However, it often prevents you from doing the best you can. Fortunately, there is a (3) _____. If you suffer from test anxiety, you can (4) _____ this problem by taking some very simple steps. First of all, accept that a little bit of anxiety before a test is a good thing - it encourages motivation. Secondly, prepare well for the test. If you want your study to be effective, try to be (5) _____ and not waste time. Give yourself enough time to learn the (6) _____ - don't wait for the last moment! Use relaxation techniques (7) _____ deep breathing or yoga which can also help reduce stress. (8) _____, have a good night's sleep before the test, and make sure you arrive 10 minutes early. In (9) _____ cases, if you experience feelings of anxiety that won't go away, consult with your doctor. Maybe she can give you something that might calm you down. The (10) _____ idea is to try to relax.

F. Which word/option best fits the following definitions?

1. the answer to a problem
 - a. pollution
 - b. a solution
 - c. material
 - d. a flood
2. to handle
 - a. to deal with
 - b. to afford
 - c. to apply
 - d. to instruct
3. very large in amount or degree
 - a. efficient
 - b. extreme
 - c. natural
 - d. local
4. precisely, just
 - a. unfortunately
 - b. finally
 - c. exactly
 - d. locally
5. unwanted or unused materials
 - a. construction
 - b. pollution
 - c. material
 - d. waste
6. for example
 - a. as soon as
 - b. as a result of
 - c. as long as
 - d. such as

YOUR ARE ALL DONE 😊 GOOD JOB