

For Teachers: Please have the students read the sentences one at a time and correct their pronunciation of each sentence then have them repeat after you. Wait until after they read the sentence (use the number in place of the missing word) to have the students choose the correct answer to fill in the blank. When the students finish the article, move on to the further questions.

日本語訳なしタイプ B もございます。スクロールダウンするとございますので好きな方をご利用下さい。

3[A] – Building on Water



AP1E 10-1

1. With sea levels expected to rise between 20 and 90 centimeters over the next century, those involved in urban development will face significant obstacles.

低平地 (ていへいち) 冠水 (かんすい) する

Low-lying areas will be submerged and flood zones will expand, meaning the land available for development will decrease. At the same time, the human population will continue to grow. So what can be done to tackle these conflicting issues?

Further Questions&A

*Ask student to answer the question on their own at first. If the student can't answer correctly, have him look at the last page and read the "example answer" for the question. Have the student try to memorize the answer, if it's too long or difficult, you should divide the sentence into 2 or 3 parts to make it easier to remember. Once they have memorized the answer, the teacher should ask the question one last time so that the student can practice answering. Also if you find any mistakes, please mark the page and let me know ASAP.

2.1) Why do those involved in urban development face significant obstacles?

3. 都市開発に関わる人たちが大きな障害に直面しているのはなぜですか。

4.2) What will cause the land available for development to decrease?

5. 開発可能な土地を減らす原因になりえるものとは何ですか。

6.1) Sea levels are expected to rise between 20 and 80 centimeters over the next century.

7.2) Low-lying areas will be submerged and flood zones will expand.

8. Enter maritime architects, who are dreaming up new cities to address the problem. One proposal is the Freedom Ship, a fully functioning high-rise city that would cruise around the world once every three years. This floating

海 (うみ) の 建築家 (けいんちくか)

高層 (こうそう)

巡航 (じゅんこう) する

汚水 (おすい)

city would be environmentally friendly. All sewage and waste oil would be burned—the ashes from sewage would be used to feed plants and the oil would be burned to produce electricity. The ship's designers say that because of this, the actual waste produced per resident would be 80 percent less than if those people were living on land.

Further Questions&A



10.3) What is the Freedom Ship?

11. Freedom Ship とは何ですか。

12.4) What do the ship's designers say about the waste produced per resident?

13. 船のデザイナーは、居住者一人当たりが排出する廃棄物について何とっていますか。

14.3) It is a fully functioning high-rise city that would cruise around the world once every three years.

15. 4) *The actual waste produced per resident would be 80 percent less than if those people were living on land.*

16. Critics point out, however, that the designers of the Freedom Ship have failed to consider potential problems. Constant surveillance would be necessary to protect against dangers from both inside and outside the ship. Security consultant Mike Bluestone warns that the ship would face crime problems like those in any small city, as well as being a “prime target for terrorists.”

Further Questions&A

17. 5) What would be necessary to protect the Freedom Ship?

18. Freedom Ship を保護するために何が必要ですか。

19. 6) What does Mike Bluestone warn about?

20. Mike Bluestone は何を警告していますか。

21. 5) *Constant surveillance would be necessary to protect against dangers from both inside and outside the ship.*

22. 6) *He warns that the ship would face crime problems like those in any small city, as well as being a “prime target for terrorists.”*

23. Taking a more practical approach, the Netherlands—a nation accustomed to floods—is creating “waterproof” towns designed to counter the floods that are becoming increasingly common in areas of the country below sea level. Houses, factories, and even parking lots sit on platforms that work like the hulls of ships. The hollow foundations beneath the platforms rise and fall as floods come and go, and they are secured to keep them from being swept away. As Dutch politician Sybilla Dekker says, “You cannot fight water; you have to learn to live with it.”

Further Questions&A

24. 7) What is becoming more common in the Netherlands?

25. オランダでよく起こるようになってきていることは何ですか。

26. 8) How will the platforms work like the hulls of ships?

27. 船体のように動作するプラットフォームは、どう動くのですか。

28. 7) *Floods are becoming increasingly common in areas of the country below sea level.*

29. 8) *The hollow foundations beneath the platforms rise and fall as floods come and go.*

30. *Choose the correct answer from these choices. 

31. (32) Why will urban developers likely face difficulties in the future?

32. 都市開発者たちが将来的に困難に直面するだろうと思われるのはなぜですか。

- 33.1. Governments plan to expand nonresidential zones and restrict the building of new homes.
- 34.2. The number of people deciding to move out of urban areas will continue to increase.
- 35.3. Few architects will be willing to participate in design projects that may prove controversial.
- 36.4. The demand for housing will grow while areas where people can live will be reduced.

37.(33) Designers of the Freedom Ship claim that

38. Freedom Ship のデザイナーが主張していることは、

- 39.1. it would be free from the violent crime that regularly occurs in similarly sized cities on land.
- 40.2. it would produce the same amount of pollution in three years as most cruise ships produce in one year.
- 41.3. sewage and other waste would be used for a variety of purposes, such as producing energy for the ship.
- 42.4. up to 80 percent of the waste produced by the ship would be disposed of on land.

43.(34) How is the Netherlands dealing with the problem of flooding?

44. オランダはどのようにして洪水問題に取り組んでいるのですか。

- 45.1. By building structures that can easily adapt to different water levels.
- 46.2. By making ships that will serve as floating cities where people can live and work.
- 47.3. By relocating the populations of cities in flood zones to safe areas above sea level.
- 48.4. By finding new ways to redirect floodwaters around heavily populated areas.

49. Review Questions



- 50.1) Why do those involved in urban development face significant obstacles?
51. *Sea levels are expected to rise between 20 and 80 centimeters over the next century.*
- 52.2) What will cause the land available for development to decrease?
53. *Low-lying areas will be submerged and flood zones will expand.*
- 54.3) What is the Freedom Ship?
55. *It is a fully functioning high-rise city that would cruise around the world once every three years.*
- 56.4) What do the ship's designers say about the waste produced per resident?

57. *The actual waste produced per resident would be 80 percent less than if those people were living on land.*

58. **5)** What would be necessary to protect the Freedom Ship?

59. *Constant surveillance would be necessary to protect against dangers from both inside and outside the ship.*

60. **6)** What does Mike Bluestone warn about?

61. *He warns that the ship would face crime problems like those in any small city, as well as being a “prime target for terrorists.”*

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63. *Floods are becoming increasingly common in areas of the country below sea level.*

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65. *The hollow foundations beneath the platforms rise and fall as floods come and go.*

解答: (32) 1 (33) 3 (34) 1



Type B 日本語訳なし

3[A] – **Building on Water**

AP1E 10-1

66. With sea levels expected to rise between 20 and 90 centimeters over the next century, those involved in urban development will face significant obstacles. Low-lying areas will be submerged and flood zones will expand, meaning the land available for development will decrease. At the same time, the human population will continue to grow. So what can be done to tackle these conflicting issues?.

Further Questions&A*Ask student to answer the question on their own at first. If the student can't answer correctly, have him look at the last page and read the "example answer" for the question. Have the student try to memorize the answer, if it's too long or difficult, you should divide the sentence into 2 or 3 parts to make it easier to remember. Once they have memorized the answer, the teacher should ask the question one last time so that the student can practice answering. Also if you find any mistakes, please mark the page and let me know ASAP.

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Further Questions&A



71. **3) What is the Freedom Ship?**

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Further Questions&A



74. **5) What would be necessary to protect the Freedom Ship?**

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Further Questions&A



77. **7) What is becoming more common in the Netherlands?**

78. **8) How will the platforms work like the hulls of ships?**

79. ***Choose the correct answer from these choices.**



80. **(32) Why will urban developers likely face difficulties in the future?**

81. **1.** Governments plan to expand nonresidential zones and restrict the building of new homes.

82. **2.** The number of people deciding to move out of urban areas will continue to increase.

83. **3.** Few architects will be willing to participate in design projects that may prove controversial.

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解答: (32) 1 (33) 3 (34) 1

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