

YOUNG LIVES SECONDARY SCHOOL SURVEY

Transferable Skills | Wave 2

You should have been given 2 documents: this **Test Booklet** and a separate **Answer Sheet**. Before you begin, read these instructions carefully.

Carefully read the questions in this **Test Booklet**. For each question, there are four options – A, B, C and D. Only one of these options is correct. Identify the option which you think best answers each question.

On the **Answer Sheet** given to you, find the corresponding question number and draw a cross ('X') on the option you want to select. Only select one option for each question.

Example

A	B	X	D
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Please do not write on the Test Booklet. Use a separate piece of paper for any working out.

If you want to change your answer, blacken the entire square for your original answer and then write a cross ('X') on the new answer you want to select.

Example

X	B	C	D
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Each question carries one mark. No marks will be deducted for wrong answers.

SECTION ONE: PROBLEM SOLVING

EXTRA CLASSES

This problem is about finding a suitable time and date to go to extra classes after school. Read the information below, and then answer the following questions.

Trung's school offers extra classes in different subjects to help students prepare for their exams. Trung wants to attend an extra class, but only wants to go with two of his friends. He wants to go during the second week of term, which begins on Monday March 24th and ends on Saturday March 29th.

Trung asks his friends for suitable dates and times to attend an extra class. He receives the following information..

Phuong: "I have to go out on Monday and Wednesday afternoons for football practice between 4:30 and 5:30"

Duc: "I've got to visit my grandmother on Saturdays, so it can't be Saturdays. I don't like the Maths teacher, so don't want to go to the extra Maths class."

Trung's parents insist that he needs to improve his language skills or to get better Science grades. They will let him stay in school any time up to 6pm.

Trung checks the schedule for extra classes in the second week of term. This is the information he finds.

CENTRAL HIGH SCHOOL	
Extra classes from Monday March 17 th for two weeks	
Chemistry 35 minutes 4.00pm (Mon-Thurs only) 5.00pm (Fri/Sat only)	Maths 40 minutes 3.30pm (Daily) 4.35pm (Daily)
Biology 40 minutes 5.30pm (Weds/Thurs only)	English 45 minutes 3.00pm (Mon-Thurs only) 2.00pm (Fri/Sat only)
History 45 minutes 5.45pm (Daily)	Physics 40 minutes 2.30pm (Mon-Thurs only) 5.15pm (Fri/Sat only)

1. What does Duc do on Saturdays?

- A. Goes to extra Maths classes
- B. Goes to football practice
- C. Does his homework
- D. Visits his grandmother

2. What does Phuong do on Monday afternoons?

- A. Improves his language skills
- B. Goes to extra History classes
- C. Goes to football practice
- D. Stays in school late

3. Taking into account the information Trung found about the extra classes, and the information he got from his friends and his parents, which of the six extra classes should Trung and the boys consider going to?

Select 'Yes' or 'No' for each extra class.

- 3A. Chemistry
- 3B. Biology
- 3C. History
- 3D. Maths
- 3E. English
- 3F. Physics

4. If the three boys decided to go to the Chemistry class, which of the following dates is suitable for them?

- A. Monday, March 24th
- B. Wednesday, March 26th
- C. Friday, March 28th
- D. Saturday, March 29th

ENERGY NEEDS

This problem is about selecting suitable food to meet the energy needs of a person. Read the information below, and then answer the following questions.

Energy is measured in kilojoules (kJ).

The following table shows the recommended energy needs in kilojoules (kJ) for different people.

DAILY ENERGY NEEDS RECOMMENDED FOR ADULTS

		<i>MEN</i>	<i>WOMEN</i>
Age (years)	Activity Level	Energy Needed (kJ)	Energy Needed (kJ)
From 18 to 29	Light	10660	8360
	Moderate	11080	8780
	Heavy	14420	9820
From 30 to 59	Light	10450	8570
	Moderate	12120	8990
	Heavy	14210	9790
60 and above	Light	8780	7500
	Moderate	10240	7940
	Heavy	11910	8780

ACTIVITY LEVEL ACCORDING TO OCCUPATION:

Light:

Indoor sales person
Office worker
Housewife

Moderate:

Teacher
Outdoor sales person
Nurse

Heavy:

Construction worker
Labourer
Sportsperson

5. What measure is used for energy in this table?

- A. Kilojoules
- B. Calories
- C. Years
- D. Kilograms

6. Thầy Hoan is a 45-year-old teacher. What is his recommended daily energy need in kJ?

- A. 7940 kJ
- B. 14420 kJ
- C. 12120 kJ
- D. 10240 kJ

Hoa is a 19-year-old football player. One evening, some of Hoa’s friends invite her out for dinner at a restaurant. Here is the menu.

MENU		Hoa’s estimate of energy per serving (kJ)
Soups:	Tomato soup	155
	Mushroom soup	585
Main courses:	Fried chicken	1130
	Boiled chicken	795
	Steamed pork	920
Salads:	Potato salad	950
	Spinach salad	335
	Russian salad	480
Desserts:	Fresh cream cake	1380
	Ginger cake	1005
	Carrot cake	565
Milkshakes:	Chocolate	1590
	Vanilla	1470

The restaurant also has four fixed price menus:

Menu 1 150 thousand dong	Menu 2 160 thousand dong	Menu 3 140 thousand dong	Menu 4 170 thousand dong
Tomato soup Boiled chicken	Mushroom soup Steamed pork	Fried chicken Potato salad	Steamed pork Fresh cream cake

Hoa keeps a record of what she eats each day. Before dinner on that day her total intake of energy had been 8250kJ.

Hoa does not want her total energy intake to go below or above her recommended daily amount by more than 500kJ.

7. Which fixed price menu should Hoa choose to stay within ± 500 kJ of her recommended energy needs?

Use all of the information on pages 4 and 5 to help you answer this question.

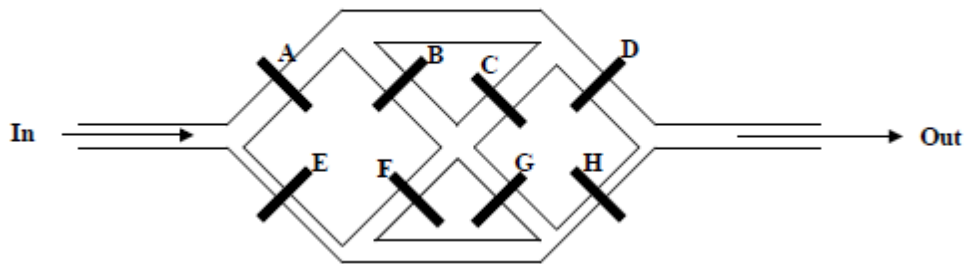
- A. Menu 1
- B. Menu 2
- C. Menu 3
- D. Menu 4

IRRIGATION

This is a problem about finding a gate which is stuck closed, preventing water from flowing through the system of channels. Read the information below, and then answer the following questions.

Figure 1 shows a diagram of a system of irrigation channels. Water flows through the irrigation channels to reach different crops in Nam’s fields. Gates A to H can be opened and closed to let the water go where it is needed. When a gate is closed, no water can pass through it.

Figure 1: A system of irrigation channels



Nam notices that the water is not always going where it is supposed to. He thinks that one of the gates is stuck closed, so that when it is switched to “open”, it does not open.

Nam uses the settings shown in Table 1 to test the gates.

Table 1: Gate settings

A	B	C	D	E	F	G	H
Open	Closed	Open	Open	Closed	Open	Closed	Open

Nam finds that when the gates have the Table 1 settings, no water flows through. This indicates that at least one of the gates set to “open” is stuck closed.

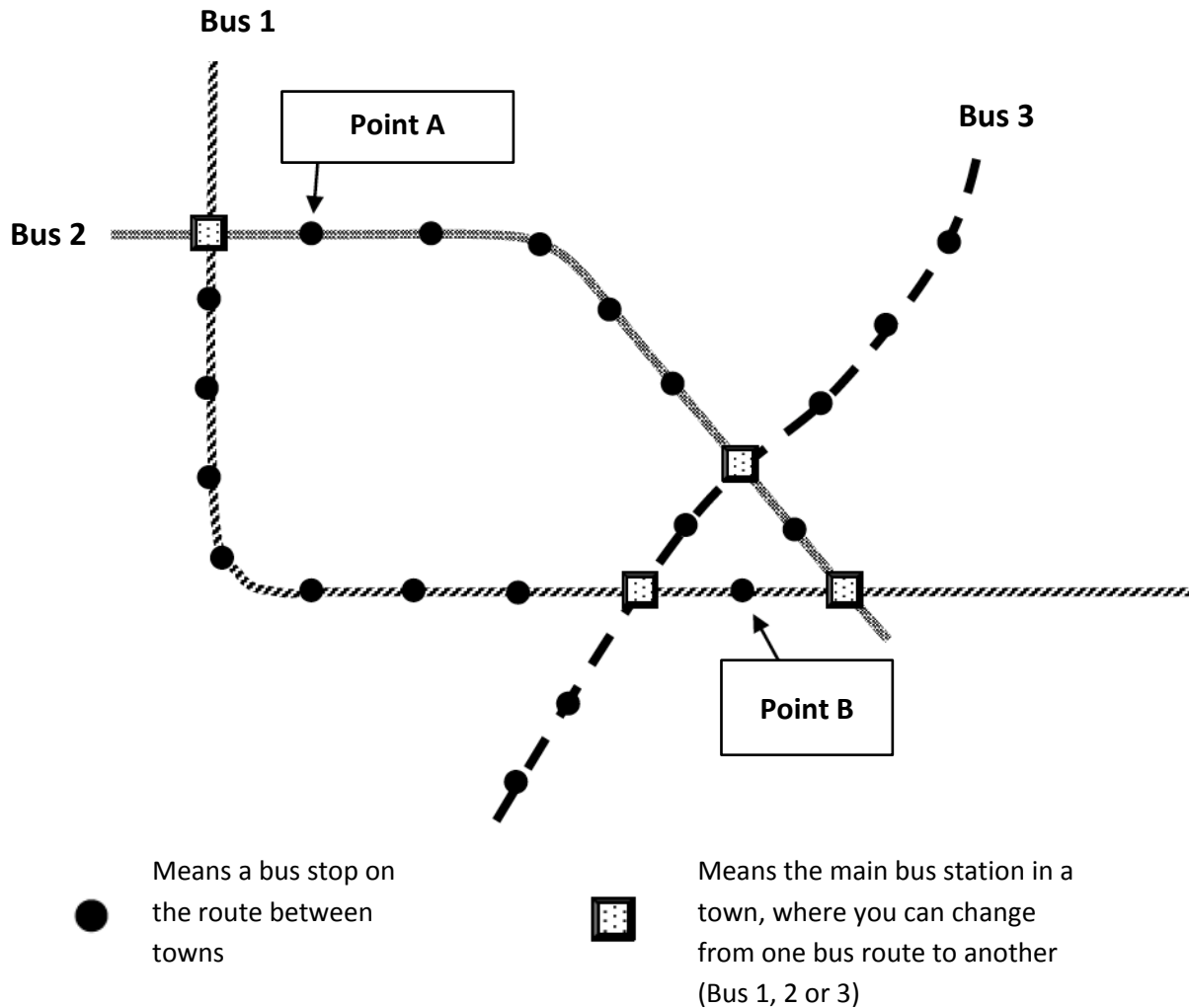
8. Decide for each problem case below whether the water will flow through all the way. Select “Yes” or “No” in each case.

Problem Case	
8A.	Gate A is stuck closed. All other gates are working properly as set in Table 1.
8B.	Gate D is stuck closed. All other gates are working properly as set in Table 1.
8C.	Gate F is stuck closed. All other gates are working properly as set in Table 1.

JOURNEY

This problem is about planning a journey using a bus map. Read the information below, and then answer the following questions.

The following diagram shows three bus routes connecting four towns. It shows where you are now (Point A), and where you have to go (Point B).



The fare is based on the number of stops you pass through (not counting the bus stop where you get on the bus). Each stop you pass through costs 1 thousand dong.

The time taken to travel between two adjacent bus stops is 2 minutes.

The time taken to change from one bus route to another at a bus station is 5 minutes.

9. How long does it take to travel between two adjacent bus stops?

- A. 2 minutes
- B. 5 minutes
- C. 1 minute
- D. 3 minutes

10. On the map, what does this symbol mean ● ?

- A. A bus stop where you have to get off the bus
- B. A bus station where you can change from one bus route to another
- C. A bus station where you can buy a ticket
- D. A bus stop on the route between towns

The diagram indicates a bus stop where you are currently at ('Point A'), and the station where you want to go ('Point B').

There is one route between Point A and Point B that is best in terms of both cost and time. You want to work out what this route is.

11. How much will the fare cost for the best route between Point A and Point B?

- A. 10 thousand dong
- B. 8 thousand dong
- C. 9 thousand dong
- D. 11 thousand dong

12. What is the journey time for the best route between Point A and Point B?

- A. 26 minutes
- B. 25 minutes
- C. 30 minutes
- D. 21 minutes

SECTION TWO: CRITICAL THINKING

Read the two passages below, and then answer the following question

Trần Hùng Mạnh
School Principal
Trường THCS Nam Kha

Dear Parents of Trường THCS Nam Kha,

The Grade 9 exams are approaching, and as a school we are increasingly concerned with the level of stress that many students experience during examination season. Teachers have started to notice students falling asleep in class! On further investigation, we have learned that students' tiredness is due to staying up all night studying, or due to spending all their evenings and Sundays attending private tuition – and in some extreme cases, students staying up all night *and* spending all their free time in private tuition.

Evidently, these are not practices that the school encourages, and we at Trường THCS Nam Kha feel that such behaviour is contributing to the high levels of stress among Grade 9 students. If students are not sleeping regularly, this will inevitably increase their stress levels. In order to ensure that Grade 9 students look after their physical and mental well-being, we have therefore decided to introduce compulsory *khí công* sessions for Grade 9 students. These sessions will be conducted every morning and afternoon, including on examination days. These *khí công* sessions will help students to relax and focus before their exams, and to calm them after their exams.

We look forward to instilling a healthier, happier school environment this exam season!

Yours sincerely,

Trần Hùng Mạnh

School Principal

HocduongBlogger: all things education in Hanoi

OUR STUDENTS NEED BETTER TEACHING, NOT MEDITATION!

by **Tống Hữu Dụng** (tonghuudung@HocduongBlogger.com)

Posted at 06:43, 5 September 2016

My regular followers will know that my daughters are now in Grade 7 and Grade 8 at Trường THCS Nam Kha. As a father, I was outraged by the principal's recent letter about students' exam stress! I know for a fact that students at Trường THCS Nam Kha, and indeed schools across our country, suffer from extreme stress in the run up to their Grade 9 exams. But I found the Principal's suggestion of compulsory *khí công* classes almost laughable!

While I enjoy the benefits of *khí công* myself, I hardly think it is an appropriate solution to the problem of exam stress. The Principal mentions students falling asleep in class, because they are spending so much of their time studying outside school. But it is small wonder that students feel the need to spend long hours studying outside school. The teachers at Trường THCS Nam Kha hardly provide any support for students as they prepare for their Grade 9 exams. Fellow parents have told me that the Grade 9 teachers do little more than read and re-read sections from the textbook that they think will appear on the exam.

Instead, teachers should provide Grade 9 students with practical coping strategies such as time management. These kinds of interventions would be much more helpful than making students meditate before and after their exams! Leave children's mental and physical well-being to the parents – we want schools to take care of their academic needs.

13. According to Trần Hùng Mạnh, what have teachers at Trường THCS Nam Kha started to notice in class?
- A. Students are eating their lunch during lesson time.
 - B. Students are staying up all night studying.
 - C. Students are falling asleep during lessons.
 - D. Students are worrying about their Grade 9 exams.
14. According to Tống Hữu Dụng, what do parents say about the teachers at Trường THCS Nam Kha?
- A. Teachers are doing a good job of preparing students for their exams.
 - B. Teachers are reading material from textbooks which could be on the exams.
 - C. Teachers are providing students with coping strategies to help with exam preparation.
 - D. Teachers are showing students how to do *khí công* in the mornings and the afternoons.
15. Which of the following statements, if true, gives the strongest support to the views presented by Trần Hùng Mạnh in his letter to parents?
- A. Other schools in the area have already introduced *khí công* for their Grade 9 students.
 - B. The school already employs a teacher who practises *khí công*.
 - C. People who meditate tend to sleep better and feel more relaxed.
 - D. Seven out of ten students reported feeling too tired to concentrate during the school day.
16. It can be inferred that Tống Hữu Dụng, the author of the HocduongBlogger post, would most likely agree with which statement?
- A. *Khí công* should be introduced at all schools and workplaces.
 - B. Students' exam-related stress is not taken seriously enough by society.
 - C. Parents, not the school, should teach their children how to meditate.
 - D. It is important to support young people who suffer from stress and anxiety.
17. On which point do the two authors most likely agree?
- A. Grade 9 students are under too much pressure.
 - B. Teachers are responsible for preparing students for the Grade 9 exams.
 - C. *Khí công* is beneficial for people of all ages.
 - D. Parents are responsible for their children's well-being.
18. Which of the following statements, if true, would most weaken the position presented by Trần Hùng Mạnh?
- A. Students at large schools tend to be under more pressure than students at smaller schools.
 - B. *Khí công* is effective at decreasing stress levels, but does not always decrease tiredness.
 - C. The school cannot afford to hire any teachers who practise *khí công*.
 - D. A nearby school has banned *khí công* sessions because they take up too much time.
19. Which of the following statements, if true, would reveal a possible bias in Tống Hữu Dụng's argument?
- A. Tống Hữu Dụng was formerly a teacher in a school in a different area that had excellent Grade 9 exam results.
 - B. Tống Hữu Dụng is thinking about sending his daughters to another school.
 - C. Tống Hữu Dụng applied to be School Principal, but Trần Hùng Mạnh was selected instead of him.
 - D. Tống Hữu Dụng teaches *khí công* at another school.

The following passage is an example of an author’s point of view on a particular topic. Read the passage below, and then answer the following questions.

The language of computers and technology is the most useful language in today’s world. That is why the English language requirement in schools should be replaced with extra computer classes which focus on programming. Spending more time on learning computer coding would give students a skill set that will lead to success in their professional and academic careers.

Currently, many schools in Vietnam teach English. Some students continue to use English for years, but the vast majority of students stop in secondary school and never use the language again. English is only useful to students who choose to work abroad or for a foreign company in Vietnam. Computer programming, however, is a universal skill and will aid students throughout their lives. It provides students with far more opportunities to succeed in technology and business than knowing English offers. Furthermore, it helps students understand how computers work, which is a central part of everyday life. Schools should keep with the times and replace the English language requirement with additional computer programming classes.

20. According to the author, when can English be useful for students?

- A. When combined with computer programming classes.
- B. During secondary school and for the rest of their lives.
- C. If they work in a foreign company or if they work abroad.
- D. This information is not provided by the author.

21. The author states, ‘The language of computers and technology is the most useful language in today’s world’. Which of the following statements, if true, would weaken this claim?

- A. It is hard to predict how important computer programming will be in the future, because computers are changing rapidly.
- B. If a student does not learn a particular technological skill in school, he or she often learns it on the job.
- C. Students who are exposed to computer programming at a young age are more likely to take on technological challenges than those who are not.
- D. Most Vietnamese people are more likely to speak English in their job than to use a computer programming language.

22. Which of the following statements is the most convincing counterargument to the author’s claim?

- A. English language learning provides students with an important cultural awareness that an education in computer programming does not provide.
- B. Students interact with technology outside the classroom so they have no need to learn programming in school.
- C. Because of the focus on literacy and mathematics in most school systems, all language requirements will likely be terminated.
- D. Computer programming is best taught as an extra-curricular activity, to students who are already passionate about computers.

23. Which of the following, if true, would reveal a bias in the author’s argument?

- A. The author comes from a multilingual background where English is spoken at home.
- B. The author works as a computer programmer and owns a small technology company.
- C. The author served on a school board in a local town for many years.
- D. The author has children who are taught English in school.