



KNOX
GRAMMAR
SCHOOL

STATE

DA VINCI DECATHLON 2019

CELEBRATING THE ACADEMIC GIFTS OF STUDENTS
IN YEARS 5 & 6



CODE BREAKING - SOLUTIONS

TEAM NUMBER _____

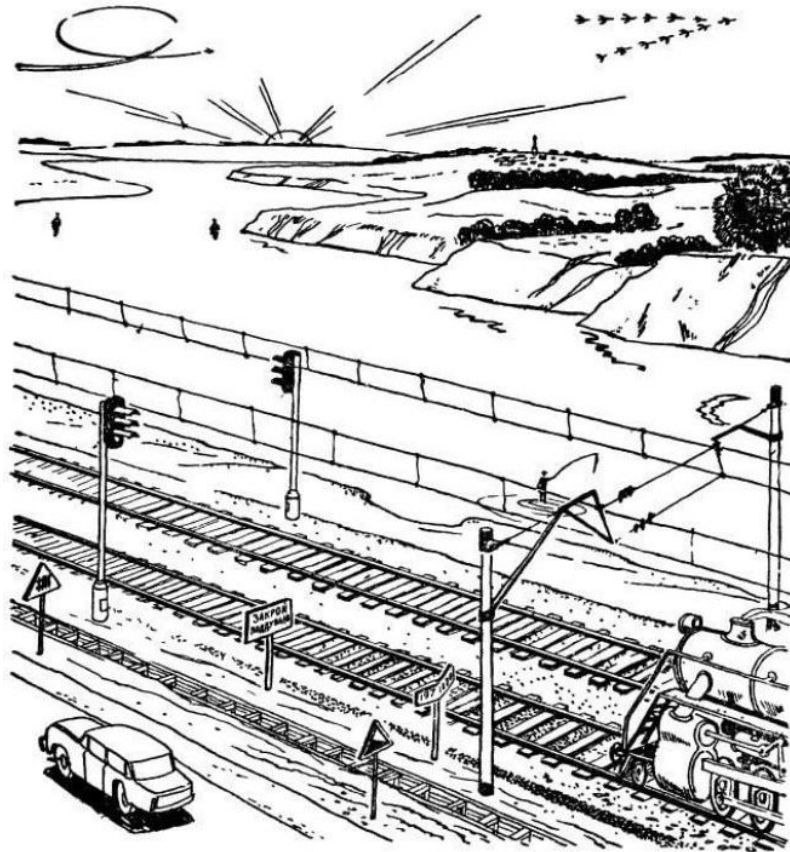
1	2	Total	Rank
/10	/50	/60	

QUESTION 1: VISTA DEDUCTION

18 MARKS

Below are some common landscapes. Decrypt these landscapes by looking carefully at the tiny details, then answer the questions relevant to each landscape.

(a) It is known the train is approaching a red light and is almost stationary.



1. Will there be a new moon soon, or in a while? (1 mark)
2. Is it morning or evening? (1 mark)
3. Is the river likely to be used by boats? (1 mark)
4. Is it windy? (1 mark)

(b)

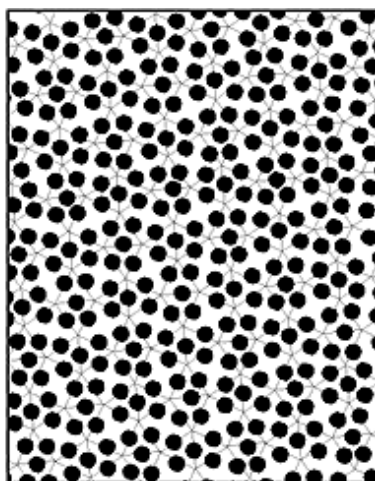
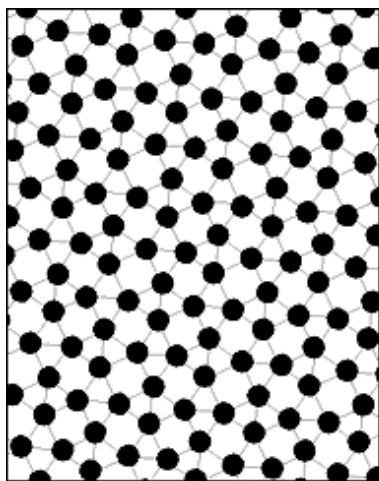


1. Is the water likely to be deep? (1 mark)
2. Is it summer/spring or winter/autumn? (1 mark)
3. Is it morning or afternoon? (2 marks)

(c) Below is an excerpt from an old newspaper. Some citizens have stumbled across a treasure chest on the beach. The bear claims he found it first, so it belongs to him. The man in the green jacket, however, claims he was there first so he owns it. Who found the treasure first and why? (1 mark)



d) Compare the two images below. What is similar and therefore connects both images? (1 mark)



QUESTION 2: THE PECULIAR PASTURES

50 MARKS



The village of Sacramentum were displeased with the uniqueness of their town. Tourism had significantly reduced, and the townspeople were no longer joyful. At a town meeting the townspeople settled on a solution: they would hire a world-renowned architect and engineer to redesign many parts of their town. They gave the architect a theme – creative countryside - expecting an exciting new pastiche of styles. When they returned for the grand re-opening, however, they were not pleased. Everywhere they looked all the townspeople could see were symbols, numbers and meaningless sentences. Unbeknownst to the townspeople the architect was in fact an avid cryptography and enjoyed dabbling in code making on occasion. This village redesign was to be the pinnacle of his career, and he decided to encrypt the entire city to create the most creative countryside in the world.

You have been hired by the townspeople of Sacramentum to make things right. They have sent you an A3 image of a section of their village that contains 10 encrypted messages. Your task is to find these codes, decrypt the messages and write your decryptions in the 10 spaces provided on the answer sheet.

ANSWER SHEET

Team Code: _____

PART	ANSWER	MARK
1(a)	(i) Answer: soon Explanation: reflection in the water of crescent moon	1 1
	(ii) Answer: morning Explanation: sun rising, moon visible	1 1
	(iii) Answer: yes Explanation: buoys in the water	1 1
	(iv) Answer: yes Explanation: train has stopped but smoke is still moving	1 1
1(b)	(i) Answer: yes, deep Explanation: fishing line is very long	1 1
	(ii) Answer: spring/summer Explanation: they are harvesting	1 1
	(iii) Answer: morning Explanation: birds are flying north (as it is spring) therefore shadows are falling on the west = morning .	1 2
1(c)	The green jacket man's footprints are occasionally on top of the bear's (1/2 a mark) so bear arrived first (1/2 a mark).	1
1(d)	The background line connection	1

PART	ANSWER – WRITE EACH DECRYPTION IN A SEPARATE BOX	MARK
2	<p>Note: order is irrelevant. 5 marks for each code. 1 mark off for each word that contains an error (or where there are less than 5 words 1 mark off for every error). Text inside the brackets is not required. Capitalisation or punctuation is not required but spaces in the appropriate places are required.</p> <p>Desert (flags on blue house)</p>	
	Beauty is in the eye of the beholder (sign)	
	This way to the market and plaza (caser shift (22)).	
	Warning fast cars may be approaching (on the middle crossing point, letters reversed and some taken out)	
	Have you been to Davy Jones? They have 50% off! (telephone pad code on the mobile phone)	
	What is under the sea? (mirror code in the water puddle)	
	Turn right for viewing platform (sign with right arrow, 1=A, B=2 etc...)	
	CONCRETE JUNGLE (pig cipher on the house)	
	OPEN FOR BUSINESS (on the fence, scrambled)	
	THIS LANDSCAPE WAS BROUGHT TO YOU BY ALAN CRYPTER (on the letter)	