

#### INFORMATION AND COMMUNICATION TECHNOLOGY

0417/02 October/November 2018

Paper 2 Practical Test A MARK SCHEME Maximum Mark: 80

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2018 series for most Cambridge IGCSE<sup>™</sup>, Cambridge International A and AS Level components and some Cambridge O Level components.

This syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

## **Generic Marking Principles**

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always **whole marks** (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

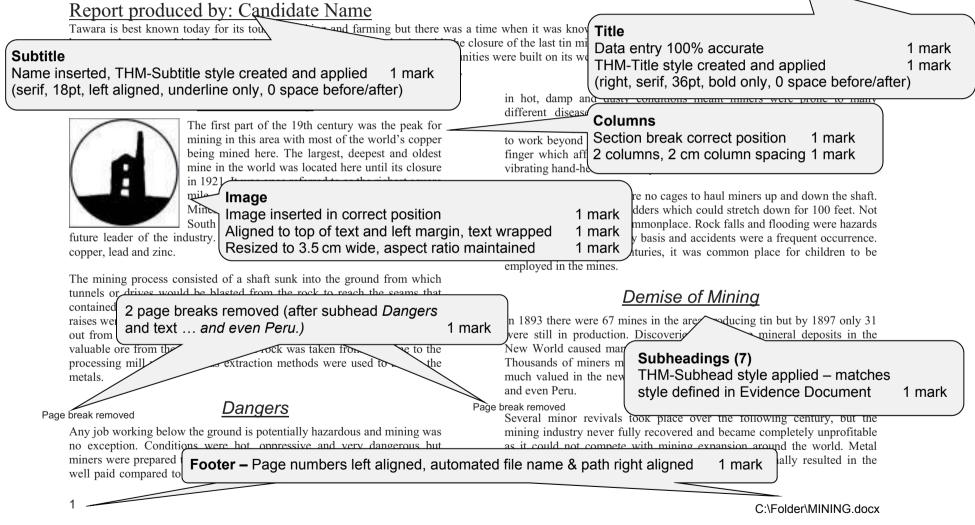
GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

Header Name, Centre number, candidate number right aligned 1 mark

- Name, Centre Number, Candidate Number

# **History of Tawara Mining**



collapse of mining at Tawara on an industrial scale. The last working tin

World Mining

mine in Europe closed in 1998.

Name, Centre Number, Candidate Number

## The Future

Over recent times the price of tin in particular has been soaring again due to limited reserves found around the world. Current metal prices are as follows:

Today the world's top 5 mining countries are:		BASEA	IETAL PRI	CELISD	
<ul> <li>Russia – iron, nickel, coal and cobalt</li> <li>South Africa – gold, copper and iron</li> </ul>	Metal name	Price/kg	Price/tonne	Price low	Price high
<ul> <li>USA – copper, coal</li> </ul>	Aluminium	1.74	1635.01	1.55	1.74
ustralia – iron, nickel and bauxite	Copper	5.11	4885.02	4.55	5.63
cold, iron, bauxite, copper	Lead	1.88	1817.51	1.63	1.97
Bullets	Nickel	11.27	10794.13	8.05	11.48
Square bullets applied to correct list 1 mark	Tin	18.77	17965.03	14.01	19.01
Bullets indented 1.5 cm from left margin, no space between items 1 mark	Zinc	2.35	2280.91	1.52	2.36
<ul> <li>Importance to rulers and traders. If was alloyed with copper to make bronze for utensils, weapons and decorations in a material that was far superior to stone.</li> <li>Tin revoluenabled for wrapping i everyday i steel or alt an import comparati China and The larges in Portuga</li> <li>In Portuga</li> <li>Importance to rulers and traders. If was alloyed with copper to make bronze for utensils, weapons and decorations in a material that was far superior to stone.</li> <li>Table content complete, correct place, no changes to dat Year 2000 price per kg column deleted</li> <li>Nickel row inserted, data 100% accurate</li> <li>Sort <i>Metal Name</i> ascending order, integrity maintained</li> <li>Top row merged, heading centred over 5 columns</li> <li>Top row only text bold, italic, 14 pt sans-serif font</li> <li>Top row - black background, white text</li> <li>Table within column width, text on one line, all borders/gr</li> <li>THM-Table style created and applied rows 2 to 8</li> <li>(serif, 11pt, centre, no space before/after each row)</li> </ul>		he price is 1 ma 1 ma 1 ma 1 ma 1 ma 1 ma 1 ma 1 ma 1 ma 1 ma	expected to dou ter in the original rk original rk nining a never be rk eritag rk dition ra of the of rk of purch rk copper and Zi m and is bra	able. Demand electronic and n that the co nt regulations n attractive p en brighter. <b><u>nge Mining</u></b> nge of comm nining indust asing comm (reddish/ora nc (bluish/wl anded with th	memorative bul ry. We are offe emorative ingot nge in appearan nite in appearan te Tawara hallm

## Page layout

THM-Body style created and applied to all text - serif, 11pt, justified, single line, 0pt before 12pt space after only 1 mark Document complete/paragraphs intact, landscape, columns balanced at top, no widows/orphans, split tables, lists, blank pages 1 mark

## Cambridge IGCSE – Mark Scheme PUBLISHED

## Card payments in 2017

Cust_No	Title	First_Name	Last_Name	Order_ID	Order_Value	Gross_Value	Pay_Type
THM0053 THM002	X	Freddie Aaron	Greenwood Bentley	T183 T144	€90 £90	€108 €108	Paycardo Wallet aycardo Wallet
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THM0084	Miss	Francesca	Brooks				
THM0036	Mr	Lewis	Bates	T174	€120	€144	Debit Card
THM0071	Mr	Alex	Fisher	T188	€120	€144	Debit Card
THM0006	Mr	Gabriel	Bryan	T160	€135	€162	Debit Card
THM0090	Miss	Matilda	Craig	T195	€140	€168	Debit Card
THM0001	Mr	Luke	Kirby	T143	€90	€108	Credit Card
THM0038	Mr	Patrick	Woodward	T145	€90	€108	Credit Card
THM0083	Mr	Taylor	Hargreaves	T150	€90	€108	Credit Card
THM0098	Mr	Henry	Dodd	T156	€91	€109	Credit Card
THM0095	Mrs	Samantha	Walton	T40	€95	€114	Credit Card
THM0088	Mrs	Lara	Riley	T153	€105		
THM0051	Mr	Hayden	Parsons	T181	€120	Record THM0044 inserted as <u>new record</u> – THM0001	
THM0086	Ms	Emma	West	T152	€120	(T143/T1) not replace	ed 1 mark
THM0086	Ms	Emma	West	T193	€120	€144	Credit Card
THM0030	Mrs	Alice	Lamb	T171	€120	€144	Credit Card
THM0001	Mr	Luke	Kirby	T1	€121	€145	Credit Card
THM0005	Miss	Ellie	Morley	T159	€121	€145	Credit Card
THM0009	Mrs	Jennifer	Welch	T161	€125	€150	Credit Car
THM0096	Ms	Ellie	Jenkins	T155	€130	€156	Credit Car
THM0009	Mrs	Jennifer	Welch	T198	€130	€156	Credit Car
THM0010	Mrs	Isabel	Price	T162	€131	€157	Credit Ca
THM0091	Ms	Gracie	Stokes	T196	€135	€162	Credit Ca
THM0044	Mrs	Samantha	Bowen	T201	€160	€192	Credit Card
				Average order value	€114		
lescending fied base f	g <i>Pay_Typ</i> ïelds in co	ue, Average Value be, ascending Ord prrect order le, all base fields p	er_Value no g	1 mark	•	e Order_Value positione	ed under <i>Order_Value</i> column. 1 m % accurate 1 m

## Cambridge IGCSE – Mark Scheme PUBLISHED

## VIP Invitation!

Mrs Samantha Bowen York Lane Folkestone HA15 8TR 31-Dec-14 4

Name, Centre number, Candidate number

## VIP Invitation!

Ms Ellie Jenkins Wheal Alfred Penzance TR18 3TF 23-Jul-13 4

Name, Centre number, Carididate number

## VIP Invitation!

VIP Invitation

Mrs Isabel Price Goodway Glasgow CA4 1JK 02-Sep-10 6

Name, Centre number, Candidate number

## VIP Invitation!

VIP Invitation!

Ms Katie Rees Tailtrees Croydon CR1 2HO 05-May-08 4

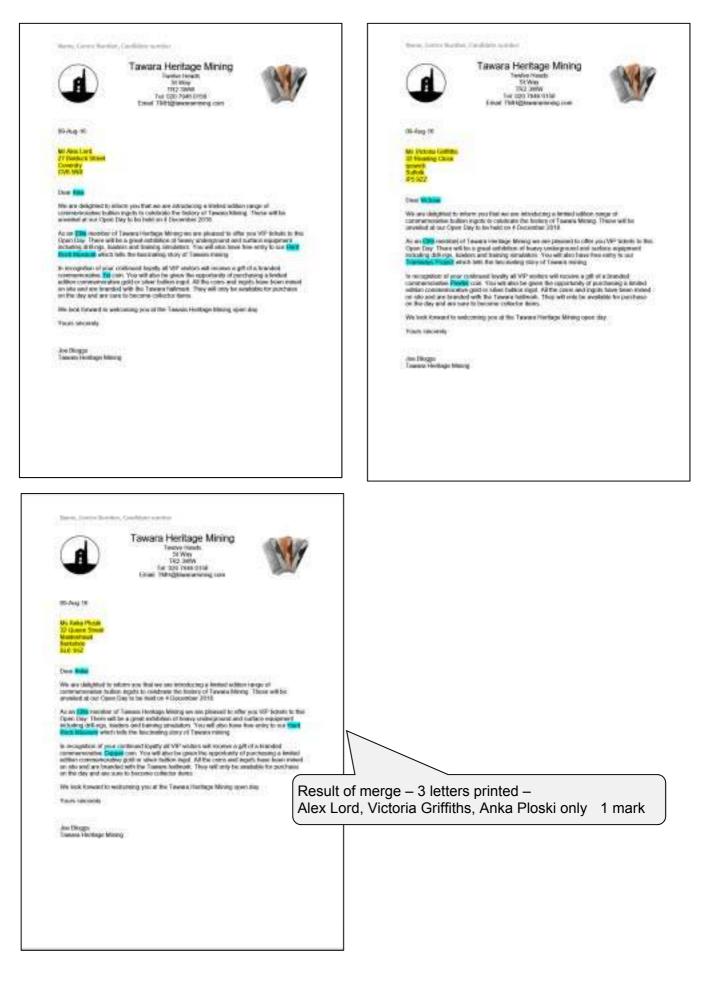
Name, Centre number, Candidate number

Mr Joshua Summe Coombe House Tewkesbury CR2 5 03-Jun-05 3	720	Mrs Jennifer Welch Largeglen Glasgow CA18 1BT 31-Dec-14 5	
Name, Centre number, Candidate number		Name, Centre number, Candidate number	
v	/IP Invitation!	Select records (7) Memb_Type is Adult or Family Memb_Date is <01/01/2015, Tin is >=3 Sort ascending on Last_Name	1 mark 1 mark 1 mark
Mr Sean Wells Lowerhill Drive Halifax HP12 3LO 03-Jun-05			
3 Name, Centre nu	-	ion! top of every label, centred, bold, larger fo nes, correct position, space to separate:	1 mark nt size 1 mark
	Town Postcode Memb_Date Tin Name, Centre numb	er and candidate number bottom of every labe	1 mark el 1 mark

#### MAIL MERGE

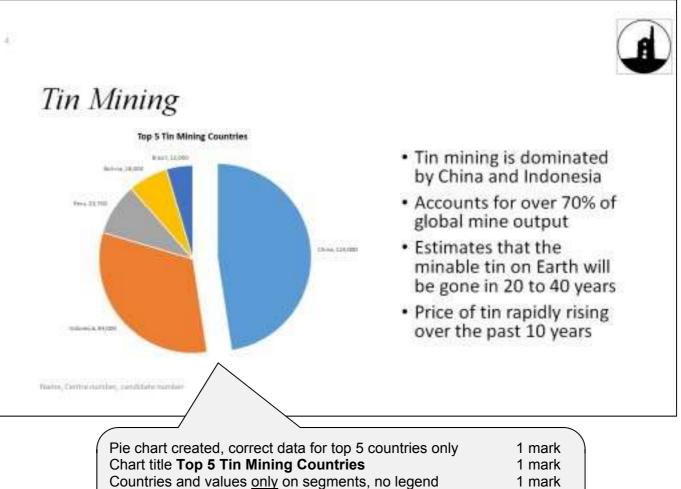
	Tawara Heritage Mining Twelve Heads St Way TR2 3WW Tel: 020 7946 0158 Email: TMH@tawaramining.com
09-Aug-16	Image reflected 1 mark
«Title» «First_Name» «Li «Add1» «Town» «County» «PostCode»	ast_Name*
Dear First_Name*	
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our attenues which tells t In recognition of your con commernorative attenues limited edition commerno mined on site and are bra purchase on the day and	rigs, loaders and training simulators. You will also have free entry to the fascinating story of Tawara mining. Intinued loyalty all VIP visitors will receive a gift of a branded in coin. You will also be given the opportunity of purchasing a rative gold or silver bullion ingot. All the coins and ingots have been anded with the Tawara hallmark. They will only be available for i are sure to become collector items.
we look forward to welco	
We look forward to welco Yours sincerely	
Yours sincerely	Name replaces Candidate Name Name, Centre number and candidate number in the header 1 ma
Yours sincerely Joe Bloggs	•

#### Cambridge IGCSE – Mark Scheme PUBLISHED



## Task 5 – Presentation

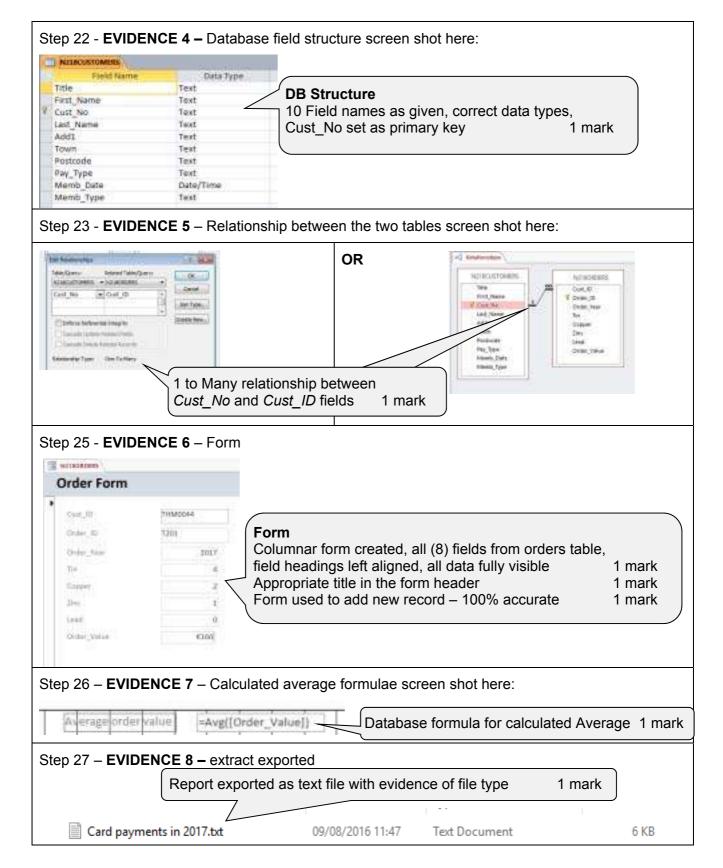




Countries and values only on segments, no legend1 markLargest segment pulled away from chart1 markChart positioned to left of bullets on *Tin Mining* slide1 markPrint 6 slides to page and *Tin Mining* as single, full page slide1 mark

## **Evidence Document**

	File saved as I	VINING correct file t	уре	1 mark		
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an MINING.	docx	09/08/2016 08:55	Microsoft Word	Document	21 KB	
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Step 29 – EVIDENCE 9 – AO1					
The Customers table contains a primary key. Explain why the Last_Name field would not be appropriate as a primary key:					
(a) data not unique/people may have the same last name	1 mark				
When adding data to a field in the Customers table, it would be easier for a user to select data from a list.					
Identify another advantage of selecting data from a list:					
(b) Speeds up data entry/reduces data entry errors	1 mark				
Identify two fields that would be most suitable for setting up as a list selection (c) <b>Two</b> from: Pay_Type Memb_Type					
Title	2 marks				
Step 30 – EVIDENCE 10 – date field screen shot here					
Evidence of field for today's date, correct format dd-MMM-yy 1 mark					
{DATE \@ "dd-MMM-yy" \" MERGEFORMAT }					
Step 34 – EVIDENCE 11 – Mail merge selection method screen shot here:					
Gaing Optime 2 N					
Star Source, symmetry					
Freid Companies Companies to					
Mail Merge Evidence of <u>automated</u> filter to select Elite status 1	mark				
piene de la companya					

## Step 43 – EVIDENCE 12

Tawara are currently backing up their data onto a tape drive system. They are considering backing up onto the cloud.

• Evaluate in your own words the use of the cloud to back up data compared to their tape drive system. Recommend the most appropriate back up storage for Tawara Heritage Mining to use.

This is a comparison question (responses must include both cloud versus tape)

## Benefits of cloud

- access to files and data anywhere at any time vs access to tape physical location
- reduced hardware/software costs as there is no hardware
- only pay for the storage you use, on a tape system you have to buy a brand new tape
- more fault tolerance greater chances of recovering data from raided/mirror cloud storage
- access to data on cloud is faster than tape as tape may need to come from off-site store/direct access to storage within the cloud vs sequential access on tape
- storage capacity may be unlimited on the cloud vs capacity of storage limited on tape

## Drawbacks of cloud

- concerns over security of data/multiple copies, don't know where data is stored, tape systems are more secure
- ownership of data, data on tapes is fully owned by you
- need internet access to update/access files, tapes you don't/data restrictions through ISP
- pay monthly subscription to cloud storage provider/ongoing cost [max 3 marks]

#### Recommendation

[1 mark]