

Cambridge International Examinations

Cambridge Primary Checkpoint

0846/02 October 2015
0846/02
DATE ER

Calculator

READ THESE INSTRUCTIONS FIRST

Pen

Pencil Ruler

Write your Centre number, candidate number and name in the spaces at the top of this page. Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer all questions.

Additional Materials:

The number of marks is given in brackets [] at the end of each question or part question.

You should show all your working in the booklet.

The total number of marks for this paper is 50.

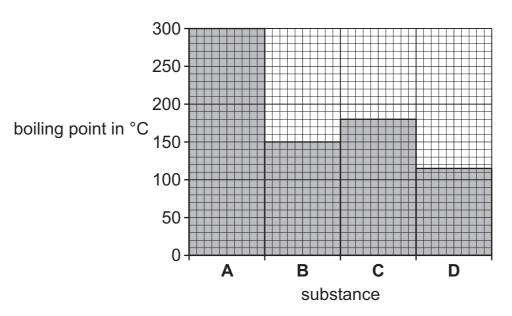


1 Complete the sentences about food chains.

Choose from the following words.

	consumer	predator	prey	producer	
A food c	hain starts with a			. •	
Any anin	nal eaten by anothe	er animal is their			
An anima	al that eats somethi	ng else in the food	chain is a		•
An anima	al that eats another	animal is a			3]

2 This bar chart shows the boiling points of some substances.



(a) What is the boiling point of substance A?

$^{\circ}C$	[1]

(b) Which substance has the lowest boiling point?

[1]

	(c) What happer	ns to a liquid when it	t boils?		[1]
		shown on the bar ch			
			***************************************	gC	[1]
3	Oliver measures	how loud some sou	ınds are.		
	(a) Circle the ap	paratus he uses.			
	O Commission of the control of the c	0000	[3,15] [2,15]	C. Linde Lin	>
	force meter	balance	sound meter	ruler	[1]
	(b) Oliver picks	up a guitar.	908		ι
			guitar		
	What must h	e do to the guitar to	produce a sound?		

(c) There is a group of children playing violins.



The teacher wants them to produce a louder sound.

What **two** things would make this happen?

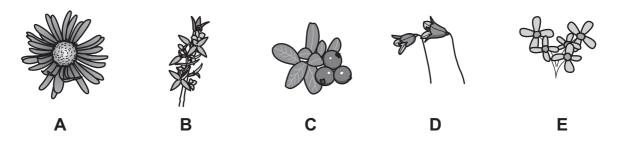
Tick (\checkmark) the **two** correct sentences.

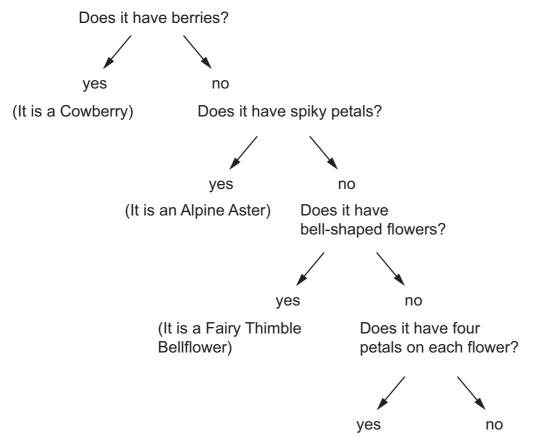
Play the violins harder.	
Play the violins softer.	
Have more violins playing.	
Have less violins playing.	

[1]

4 Keys can be used to identify plants.

Here is the key for some plants.





(It is a Common Mezereon) (It is a Pinnate-leaved Ragwort)

Use the key to identify the plants.

Б = Е =	[3]
D =	
C =	
B =	
A =	

- 5 Chen wants to separate a mixture of salt, sand and iron powders.
 - (a) First of all Chen decides to separate the iron from the mixture.

Put a circle around the method he uses.

evaporation

filtration

magnetic attraction

sieving

[1]

(b) Chen then decides to separate the sand from the salt and sand.

He adds water to the mixture and then stirs the mixture for two minutes.

Put a circle around the method he then uses to obtain the sand.

evaporation

filtration

magnetic attraction

sieving

[1]

(c) To finish the separation Chen gets salt from the salt solution.

Put a circle around the method he uses to obtain the salt.

evaporation

filtration

magnetic attraction

sieving

[1]

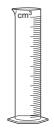
6 Pierre and Yuri investigate how exercise changes pulse rate.



(a) What equipment will they need to measure pulse rate?Circle the correct equipment.









[1]

(b) Which unit is a correct measurement of pulse rate?

Circle the correct answer.

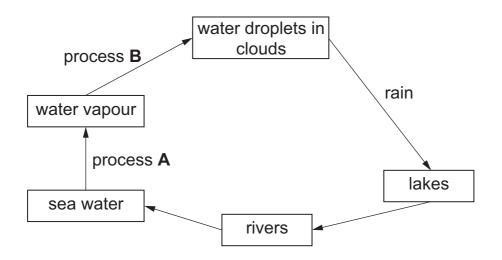
beats per minute
beats per second
minutes per beat
seconds per beat

(c)	Pierre	runs	for	1	minute.

Complete the sentence using one of these words.

	decrease i	ncrease	stay the sam	e	
	Pierre thinks his pulse rate w	ill		·	[1]
(d)	What is the sentence above?				
	Circle the correct answer.				
	conclusion met	hod prec	liction	result	[1]
(e)	Pierre runs for 1 minute agair	ı.			
	Why is it a good idea to repeat	at measurements	?		
					[1]
					Γ.1

7 The flow chart shows part of the water cycle.



(a)	What is the name of process A ?	
		[1]
(b)	What is the name of process B ?	
		[1]
(c)	Sometimes it is so cold that the water in a lake becomes ice.	
	What is the name of this process?	
		[1]
(d)	Sea water is boiled in a beaker for a long time.	
	What would you see?	
		F47

8 Lily wants to measure her mass.

She stands on the scales.



she puts her hands down



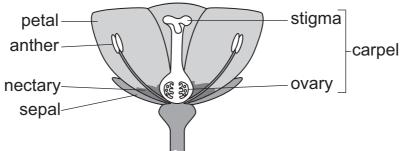
she puts her hands up

Tick (✓) the correct answer.

Lily's mass is greatest when her hands are up.	
Lily's mass is less when her hands are up.	
Lily's mass is the same when her hands are up or down.	

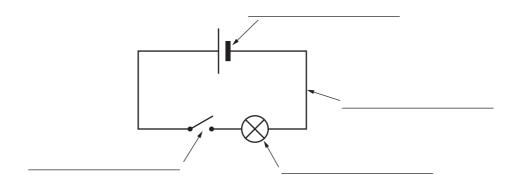
[1]

9 Flowers have different parts.



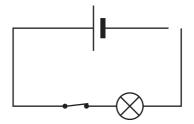
(a)	Why do flowers have petals?			
				[1]
(b)	Circle the part of the flower wh	nich produces polle	en.	
	anther	carpel	ovary	[1]
(c)	Circle a female part of the flow	/er.		
	nectary peta	l sepal	stigma	

10 Rajiv finds an electric circuit diagram in a book.



(a) Label the circuit diagram. [3]

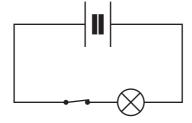
Rajiv builds this circuit.



(b) It does not work. Explain why.



(c) Rajiv now builds this circuit.

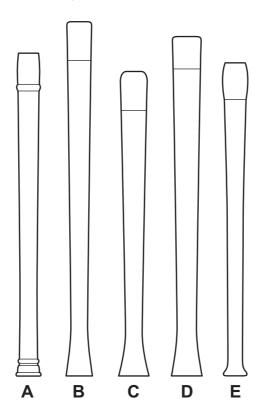


It does not work. Explain why.

[1]

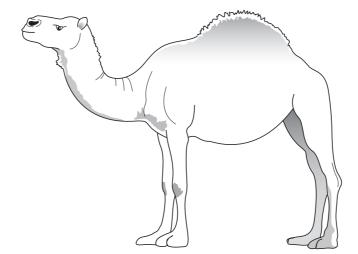
11 Oliver and Carlos investigate sound.

They listen to the **pitch** made by different recorders.



(a)	The recorders a	are differen	t lengths.			
	What apparatus	s is used to	measure	the length	of the recorders	?
						[1]
(b)	Recorder B has		•			
	Predict which recorder will have the highest pitch.					
	Circle the corre	ct letter.				
		Α	С	D	E	[1]
(c)	Explain why you	u predicted	this reco	rder.		
						[1]

12 Using the picture below list **three** features which help this animal to adapt to its environment.



1	
2	
3	[3]

13 Scientists explore the solar system.

Which scientist was one of the **first** to believe that the Sun was at the centre of our solar system?

Tick (✓) the correct scientist.

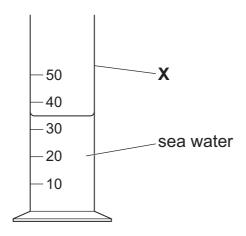
Edwin Hubble	
Galileo Galilei	
Isaac Newton	
Leonardo da Vinci	

[1]

14 Hassan lives by the sea.

He wants to find out how much salt is in seawater.

He measures a small volume of seawater using this apparatus.



(a) What is the name of apparatus

[1]

(b) What is the volume of seawater in apparatus X?

cm³ [1]

(c) Hassan then finds the mass of a clean glass dish.

What piece of apparatus should Hassan use to do this?

Circle the correct answer.

balance beaker ruler thermometer
[1]

(d) Hassan pours all of the seawater into the glass dish.

He leaves the dish of seawater in the sun for one day.

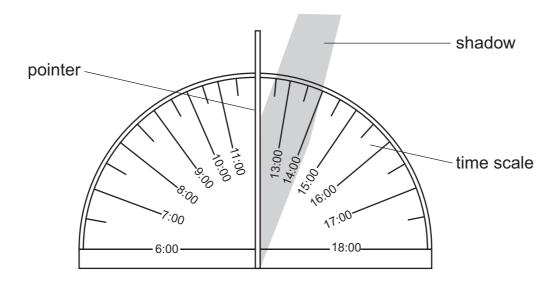
What happens to the volume of seawater in the dish?

Circle the correct answer.

uccicases ilicicases stavs the saili	decreases	increases	stays the same
--------------------------------------	-----------	-----------	----------------

[1]

15 Priya and Mia make a sundial.



(a) The time is 14:00.

Describe how the sundial shows this time.

(b) Why does the shadow change during the day?

Circle the correct answer.

the Sun moves during the day
the Earth spins on its axis during the day
the Sun spins on its axis during the day

[1]

(c) Priya wants to make a sundial to show the time over 24 hours.

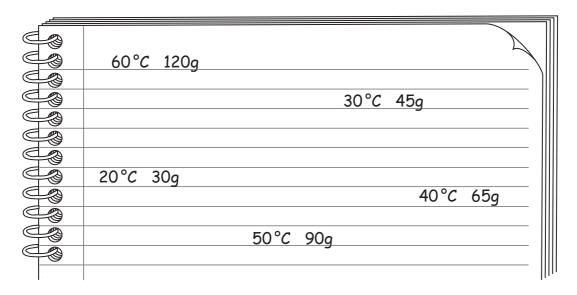
Mia says this is **not** possible.

Explain why Mia is correct.

16 Aiko investigates how much of a solid dissolves in 100 cm³ of water.

She writes down her results.

Here is a page from her note book.



Why is it a good	idea for Alko to pu	t ner results in a table	97
			[1

BLANK PAGE

BLANK PAGE

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

University of Cambridge International Examinations is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.