PEI HWA PRESBYTERIAN PRIMARY SCHOOL

Mini Test 2

PRIMARY 4

SCIENCE

24th August 2018

Name: _____( )

Class: Primary 4 Teamwork _____

Parent's Signature

Total time: 30 mins

INSTRUCTIONS TO CANDIDATES

1. Write your Name, Class and Index No. at the spaces provided above.
2. DO NOT turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions in this question booklet.

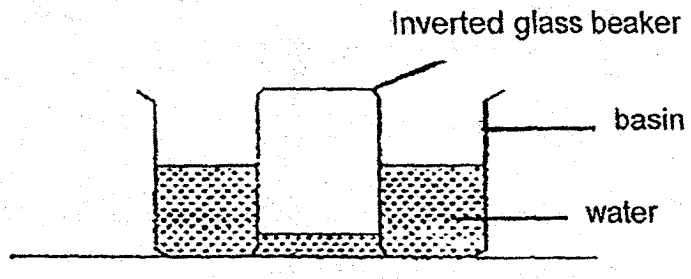
FOR TEACHER'S USE

Marks (Section A) :	12
Marks (Section B) :	8
Total Marks (Sections A & B) :	20

There are a total of 5 pages in this booklet, excluding the cover page.

For each question, from 1 to 6, four options are given. One of them is correct.
Make your choice and write your answer (1, 2, 3, or 4) in the brackets provided. (12 marks)

1 Alice took an empty glass beaker, inverted it and pushed it into a basin of water. She noticed that only a small amount of water entered the glass beaker.

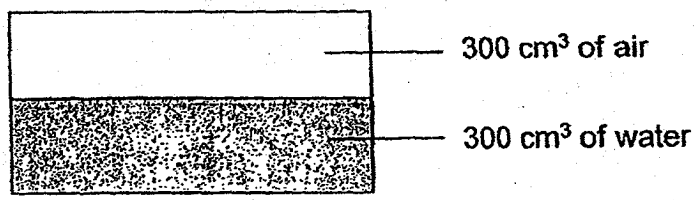


This experiment showed that air _____.

(1) has mass
(2) can move
(3) takes up space
(4) cannot be compressed

( )

2 A sealed container is filled with water and air as shown below.



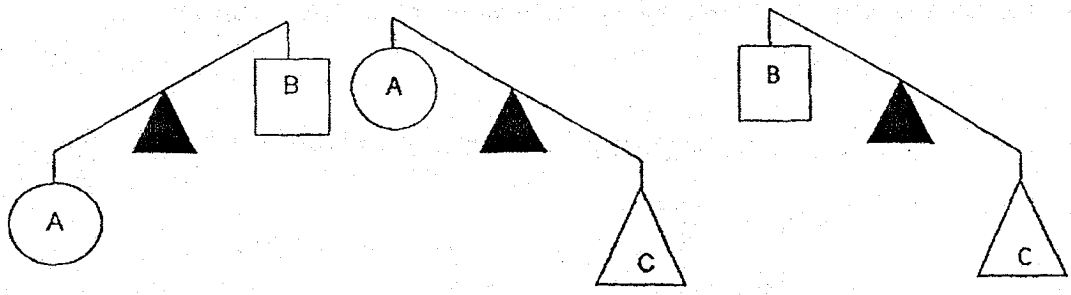
Gerald drained out 100cm³ of water and pumped in another 50 cm³ of air into the container.

What is the volume of air in the container after this?

(1) 450 cm³
(2) 400 cm³
(3) 350 cm³
(4) 300 cm³

( )

3 Three objects A, B and C have different masses. They are hung on a rod in pairs as shown below.

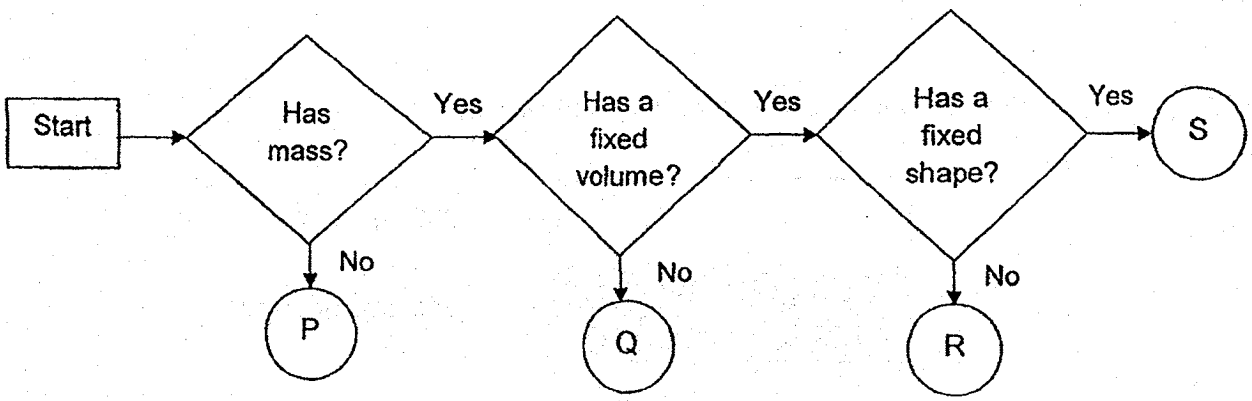


Arrange A, B and C according to their masses, beginning with the least mass.

(1) A, B, C
(2) B, A, C
(3) C, A, B
(4) C, B, A

( )

4 Study the flowchart below.



Based on the information above, what could P, Q, R and S likely be?

	P	Q	R	S
(1)	Heat	Oxygen	Orange Juice	Milk
(2)	Shadow	Wind	Oxygen	Sponge
(3)	Heat	Orange Juice	Sponge	Oxygen
(4)	Music	Wind	Milk	Cup

( )

5 Carrie left a jug of hot water on a table and measured the temperature of the water in the jug every minute for ten minutes. She recorded the temperatures taken in the table below.

Time (min)	0	1	2	3	4	5	6	7	8	9	10
Temperature (°C)	95	93	90	88	85	83	80	76	74	70	66

Which of the sentences below best describes the results?

(1) The surrounding air gained heat from the water in the jug.

(2) The water in the jug gained heat from the surrounding air.

(3) The water in the jug gained coldness from the surrounding air.

(4) The surrounding air transferred coldness to the water in the jug.

( )

6 An object from the Moon was brought to Earth by scientists. The properties of this object are listed below:

- It has a definite shape.
- It has a definite volume.
- It cannot be compressed.

Based on the information above, what is the state of matter of this object?

(1) Gas

(2) Solid

(3) Liquid

(4) A non-matter

( )

Write your answers to the questions 7 to 10 in the spaces provided.
The number of marks available is shown in brackets [ ] at the end of each question or part question. (8 marks)

7 Diagram A shows the water level in a measuring cylinder. Diagram B shows the new water level when a stone is placed in the same measuring cylinder.

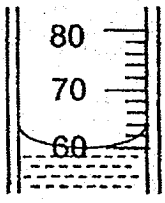


Diagram A

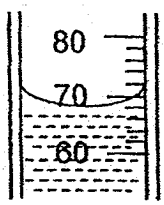


Diagram B

a) How much water does the measuring cylinder contain before the stone was placed? [1]

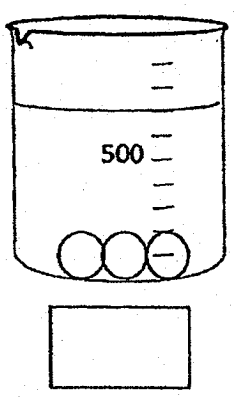
_____ cm^3

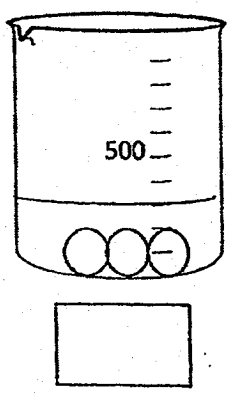
b) What is the volume of the stone? [1]

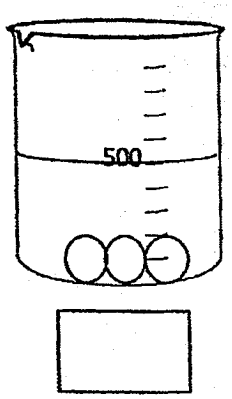
_____ cm^3

8 Eddie placed some marbles into a beaker and added 500 mℓ of water.

a) Put a tick (✓) to show the final water level in the beaker after 500 mℓ of water is poured in. [1]







b) Give a reason for your answer in (a). [1]

_____

_____

9 Ben pumped 500 cm^3 of air into the sealed bottle with volume of 350 cm^3 as shown below.

Sealed bottle with volume of 350 cm^3

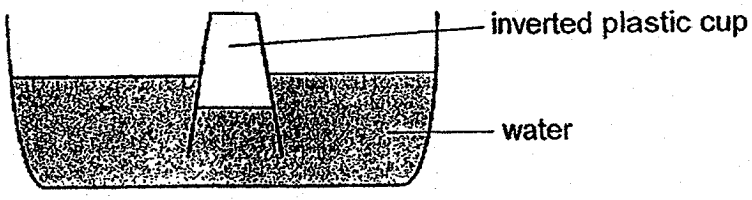
a) State the volume of air in the sealed bottle after she had pumped in 500cm^3 of air. [1]

_____

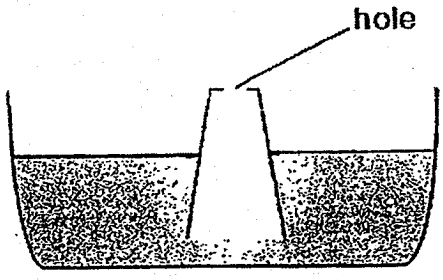
b) What are the 2 properties of gas shown in the experiment above? [1]

_____

10 Carol inverted an empty plastic cup into a basin of water. She observed the water level in the cup as shown in the diagram below.



a) Without lifting the cup out of the basin, Carol then poked a hole in the base of the cup. **Draw a line in the cup below** to show clearly the <u>new</u> water level in the cup after she had poked the hole. [1]



b) Give a reason for your answer in (a). [1]

_____

_____

- End of paper -

EXAM PAPER 2018 (P4)

SCHOOL : PEI HWA

SUBJECT : SCIENCE

TERM : CA2

Q1	Q2	Q3	Q4	Q5	Q6
3	2	2	4	1	2

Q7) a) 60 cm3

b) 8 cm3

Q8) a)

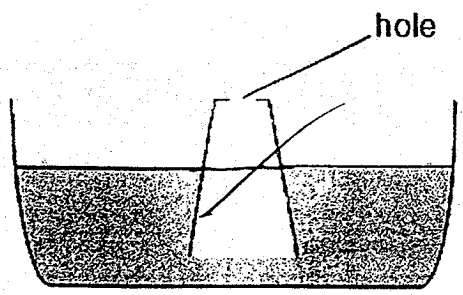
b) As the marbles have mass and definite volume, the water level rises when three marbles were put into the beaker.

Q9) a) 350 cm3

b) 1) Air can be compressed

2) No definite voulume

Q10) a)



b) When the air escaped from the hole, the water went into the cup to occupy space.