Ai Tong School P4 Science 2024 Term 3 Review

Name: _	()	Class: 4		
Date:		Marks:/25		
Duration: 35 minutes		Parent's Signature:		
Section A	A (14 marks)			
For each Make you	question from 1 to 7, four options aur choice (1, 2, 3 or 4) and shade yo	are given. One of them is the correct answer		
1 Stu	dy the classification table below.			
	Light source	Non-light source		
	fire lighted torch lightning moon	mirror highlighter firefly battery		
Whi	ch of the following has/have been o	classified wrongly?		
(1)	firefly only			
(2)	firefly and moon only			
(3)	lightning and battery only			
(4)	firefly and highlighter only			

2 The diagram shows a glass.



The glass can be seen because it _____

- (1) is opaque
- /(2) reflects light
- ((3) absorbs light
- (4) is a source of light

Which of the following is **not** a source of heat?

(1) A jacket



√(2) Fire



√ (3) A cup of hot tea

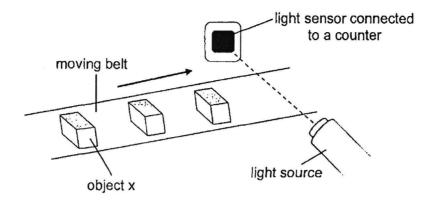


√(4) The Sun

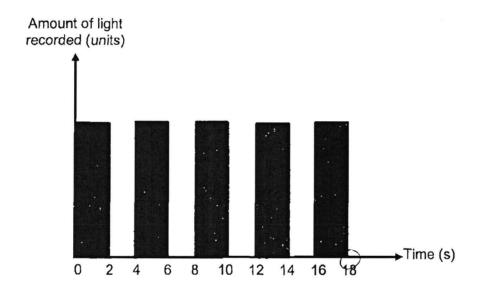


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A light source and a light sensor are set up to count the number of object X on a moving belt.



When object X moves between the light source and the sensor, it blocks the light from reaching the sensor. The amount of light recorded over a period of time is shown in the graph below.



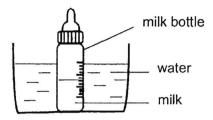
Based on the graph above, how many object X passed the sensor within a period of 18 seconds?

- (1) 4
- (2) 5
- (3) 9
- (4) 18

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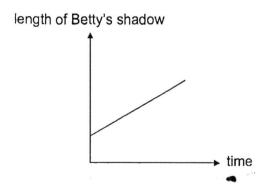
5 A bottle of milk at 30°C was placed in a basin of water as shown in the diagram below.



After two minutes, the temperature of the milk became 50°C. What was the likely temperature of the water in the basin at first?

- (1) 10°C
- (2) 30°C
- (3) 50°C
- (4) 80°C

In the experiment, Mary measured the length of Betty's shadow from a lighted lamp post over a period of time. Her results are shown below.



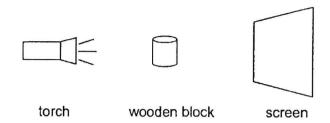
Which of the following describes the position of Betty during the experiment?

- (1) Betty stood still near the lamp post.
- (2) Betty moved towards the lamp post.
- (3) Betty moved away from the lamp post.
- (4) Betty moved towards then moved away from the lamp post.

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7 The set-up below shows a torch shining on a wooden block.

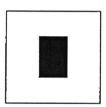


Which one of the following would likely be seen on the screen?

(1)



(2)



(3)



(4)



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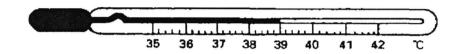
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Section B (11 marks)

For questions 8 to 11, write your answers in the spaces provided.

The number of marks available is shown in bracket [] at the end of each question or part question.

8 John was running a fever so he used the instrument below to measure his body temperature.



(a) State the reading shown in the instrument.

[1]

(b) Name the instrument used to measure his body temperature.

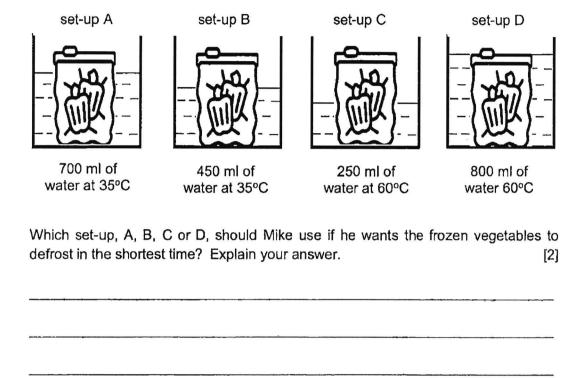
[1]

(c) John placed a cold and wet towel on his forehead for fifteen minutes. What would happen to his body temperature? Explain your answer.

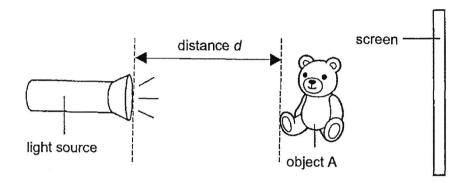
[2]

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9 Mike conducted an experiment as shown below to find out how he could defrost a packet of frozen vegetables in the shortest time. He placed four similar packets of frozen vegetables into four similar containers containing different volumes of water at different temperatures.



Mandy wanted to find out how the distance *d* would affect the height of the shadow of object A on the screen. When she switched on the torch, a dark shadow of object A was formed on the screen. The position of the screen is fixed throughout the experiment.



She recorded the results in the table below.

Distance d (cm)	Height of shadow (cm)
5	20
10	16
15	10

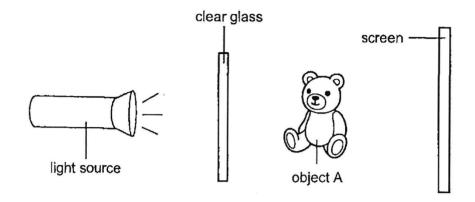
(a) What is the relationship between the distance d and the height of the shadow?

 [1]
 (b) If Mandy sets distance d as 8cm, predict the height of the shadow formed on the screen.
 [1]

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Question 10 continues on this page ...

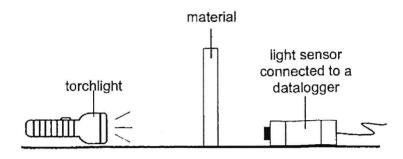
Without making any changes to the set-up, Mandy placed a large piece of clear glass between the light source and object A.



(c)	Mandy observed that a dark shadow was also formed on the screen. Explain her observation.		
	Explain her observation.		

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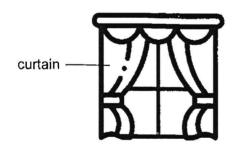
Different materials are placed one at a time between a torch and a light sensor connected to a datalogger. The amount of light passing through each material was recorded.



The table below shows the readings recorded.

Material	Amount of light recorded (unit)
А	840
В	100
С	3175
D	2460

Dan wanted to install curtains on his windows to block out as much light as possible.



Based on the experiment, which material, A, B, C or D, is most suitable to be used for making the curtains? Explain your answer. [2]

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End of Paper

1)2 2)2 3)1 4)1 5)4 6)3 7)2

2024 Term 3 Science WA Correction Template

e:	() Date:
:	
No	Suggested Answers
	39 °C
	Thermometer
	His body temperature will His body His body His body
	Choice: Set-up $_D$
	Data: Container in set-up D contains the most matter at a higher temperature.
	Explain: So heat will transfer from water to frozen vegetables to defrost it.
	distance d increases, As, the
	height of the shadow decreases.

10b	17 cm – 19 cm			
10c	transparent The clear glass is light to pass through it.		/ allowsmost	
11	Choice: Material			
	Data: Amount of light recorded is the	least		
	Explain: B can block outmosttransparent.		_ amount of light/ B is the	

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