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**Ai Tong School  
P4 Science  
2024 Term 3 Review**

Name: \_\_\_\_\_ ( )

Class: 4 \_\_\_\_\_

Date: \_\_\_\_\_

Marks: \_\_\_\_\_/25

Duration: 35 minutes

Parent's Signature: \_\_\_\_\_

**Section A (14 marks)**

For each question from 1 to 7, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer in the OAS provided.

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- 1 Study the classification table below.

Light source	Non-light source
fire lighted torch lightning moon	mirror highlighter firefly battery

Which of the following has/have been classified **wrongly**?

- (1) firefly only
- (2) firefly and moon only
- (3) lightning and battery only
- (4) firefly and highlighter only

( )

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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

( )

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

(1) A jacket



✓(2) Fire



✓(3) A cup of hot tea



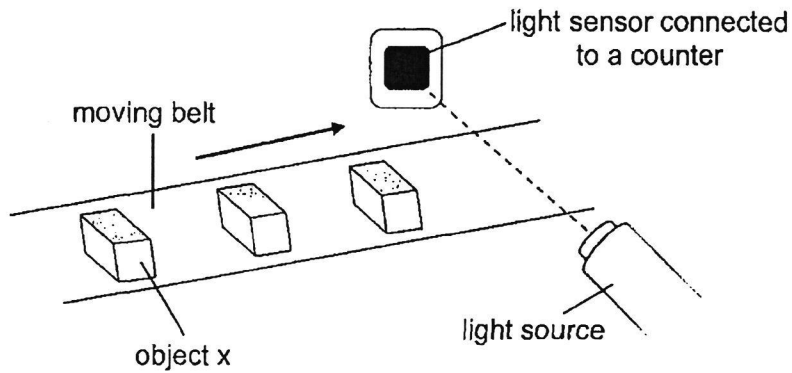
✓(4) The Sun



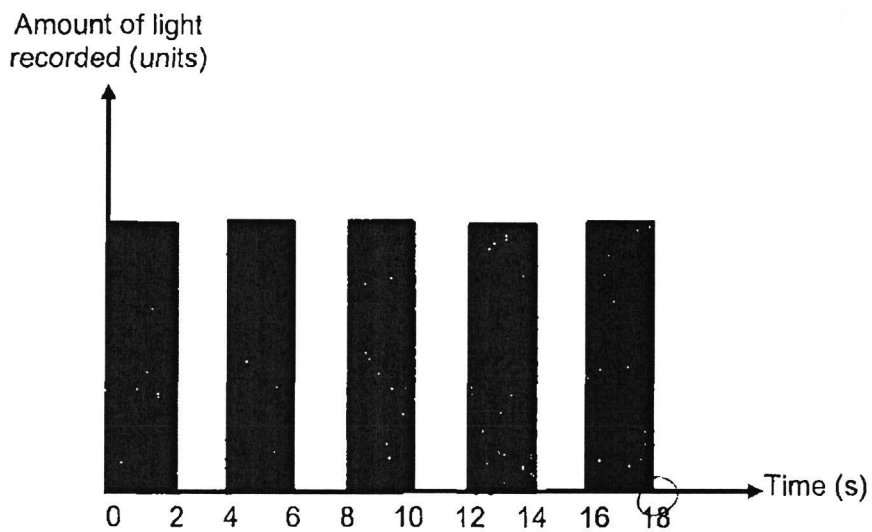
( )

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- 4 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.



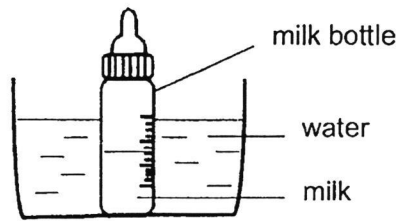
Based on the graph above, how many object X passed the sensor within a period of 18 seconds?

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

( )

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- 5 A bottle of milk at  $30^{\circ}\text{C}$  was placed in a basin of water as shown in the diagram below.

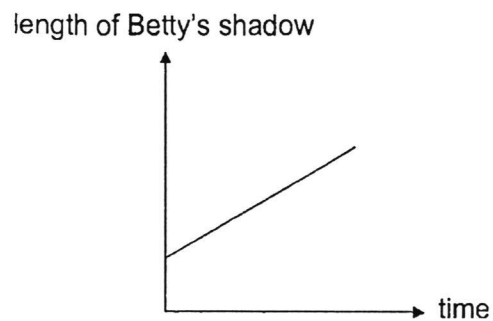


After two minutes, the temperature of the milk became  $50^{\circ}\text{C}$ .  
What was the likely temperature of the water in the basin at first?

- (1)  $10^{\circ}\text{C}$
- (2)  $30^{\circ}\text{C}$
- (3)  $50^{\circ}\text{C}$
- (4)  $80^{\circ}\text{C}$

( )

- 6 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.



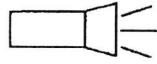
Which of the following describes the position of Betty during the experiment?

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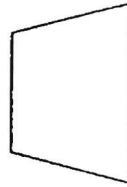
7 The set-up below shows a torch shining on a wooden block.



torch



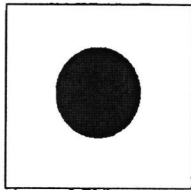
wooden block



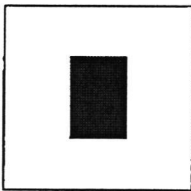
screen

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

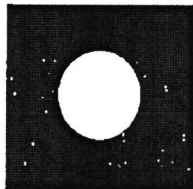
(1)



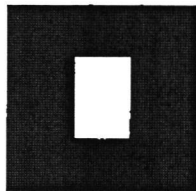
(2)



(3)



(4)



( )

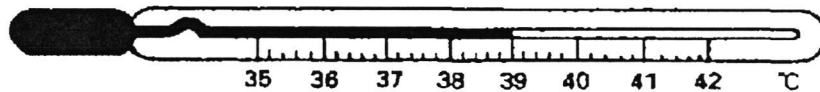
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**Section B (11 marks)**

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]

\_\_\_\_\_

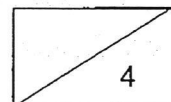
- (c) John placed a cold and wet towel on his forehead for fifteen minutes. What would happen to his body temperature? Explain your answer. [2]

\_\_\_\_\_

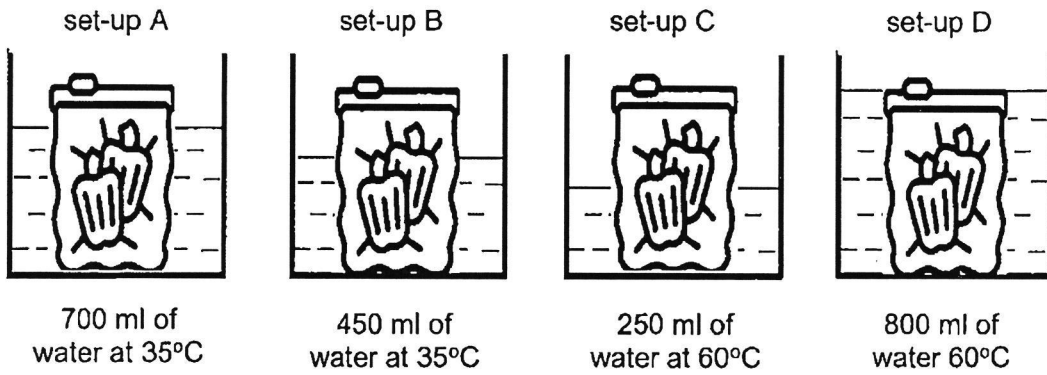
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\_\_\_\_\_

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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.



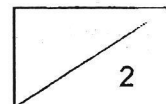
Which set-up, A, B, C or D, should Mike use if he wants the frozen vegetables to defrost in the shortest time? Explain your answer. [2]

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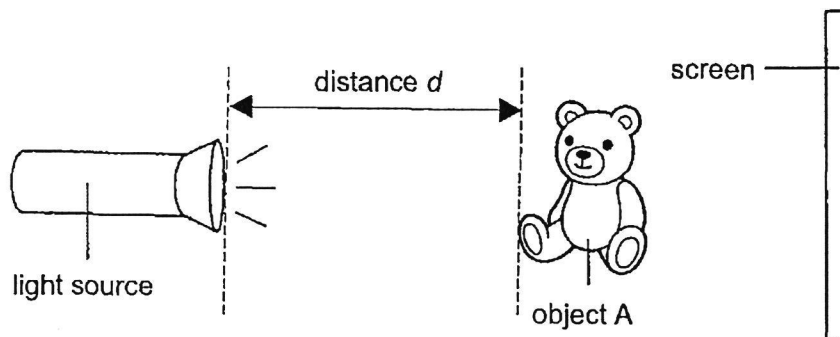
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- 10 Mandy wanted to find out how the distance  $d$  would affect the height of the shadow of object A on the screen. When she switched on the torch, a dark shadow of object A was formed on the screen. The position of the screen is fixed throughout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

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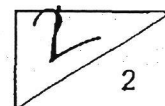


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- (b) If Mandy sets distance  $d$  as 8cm, predict the height of the shadow formed on the screen. [1]

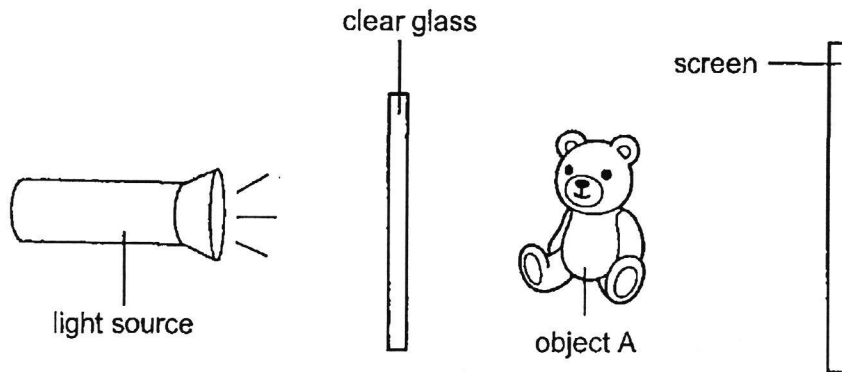
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Question 10 continues on the next page ...



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.



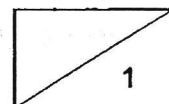
- (c) Mandy observed that a dark shadow was also formed on the screen.  
Explain her observation.

[1]

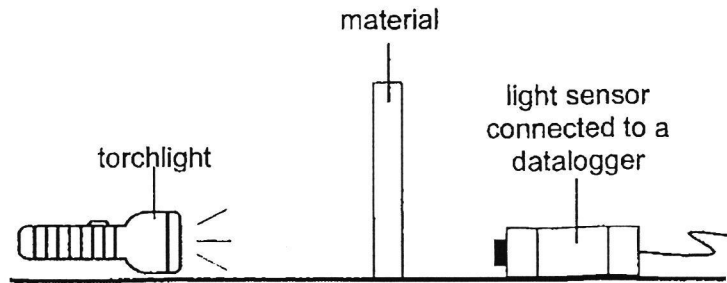
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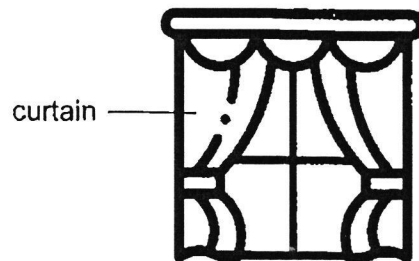
- 11 Different materials are placed one at a time between a torch and a light sensor connected to a datalogger. The amount of light passing through each material was recorded.



The table below shows the readings recorded.

Material	Amount of light recorded (unit)
A	840
B	100
C	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]

Λ

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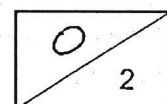


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End of Paper



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

2024 Term 3 Science WA Correction Template

Name: \_\_\_\_\_ ( )    Date: \_\_\_\_\_

Class: \_\_\_\_\_

Qu. No    Suggested Answers

8a    39 °C

8b    Thermometer

8c    His body temperature will decrease. His body  
loses heat to the wet towel.

9    Choice: Set-up D.

Data: Container in set-up D contains the most matter  
at a higher temperature.

Explain: So most heat will transfer from water  
to frozen vegetables to defrost it.

10a    distance d increases,  
As \_\_\_\_\_, the  
height of the shadow decreases.

10b 17 cm – 19 cm

10c The clear glass is **transparent** / allows **most** light to pass through it.

11 **Choice:** Material **B**

**Data:** Amount of light recorded is the **least**.

**Explain:** B can block out **most** amount of light/ B is the **least** transparent.

28 AUG 2024