



SEMESTER ONE 2019  
Investigating Science Test Year 8:  
ANSWER BOOKLET

NAME: \_\_\_\_\_

FORM: \_\_\_\_\_ DATE: \_\_\_\_\_

Multiple Choice

Short Answer

Total

/10
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/20
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/30
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**SECTION ONE:** Multiple choice answers

Cross (X) through the correct answer.

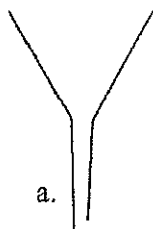
1	a	b	c	<del>d</del>
2	a	<del>b</del>	c	d
3	a	b	<del>c</del>	d
4	<del>a</del>	b	c	d
5	a	b	c	<del>d</del>
6	<del>a</del>	b	c	d
7	a	<del>b</del>	<u>c</u>	d
8	a	<del>b</del>	c	d
9	<del>a</del>	b	c	d
10	a	b	<del>c</del>	d

10. Which of the following variables would need to be **controlled** to make it a fair test?

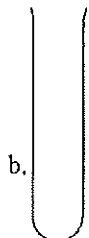
- a) The brand of spaghetti
- b) The size of the fabric
- c) The washing and drying process
- d) The size of the spaghetti tin

**SECTION 2: WRITTEN SECTION:** Write your answers on the lined paper provided.

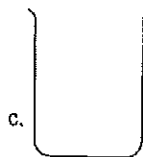
1. Name these pieces of equipment (4 marks)



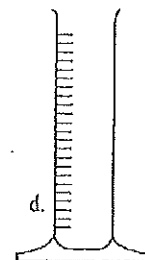
Funnel



Test-tube



beaker



Measuring Cylinder

2. Decide whether each of these is an observation, inference or prediction. (5 marks)

a) The water temperature is 16.5°C. Observation

b) The soft drink is fizzy due to the carbon dioxide. Inference

c) I can see smoke on the horizon. Observation

d) The red ball will float when I throw it in the pool. Prediction

e) It will be warmer tomorrow. Prediction

3. Write the term that matches each description (4 marks)

Question	Description	Term
a	An educated guess	Hypothesis
b	Types of measurements that use numbers	Quantitative
c	Any factor that influences the outcome of an experiment	Variable
d	A statement that summarises the findings of the experiment	Conclusion

Turn the page for the final question

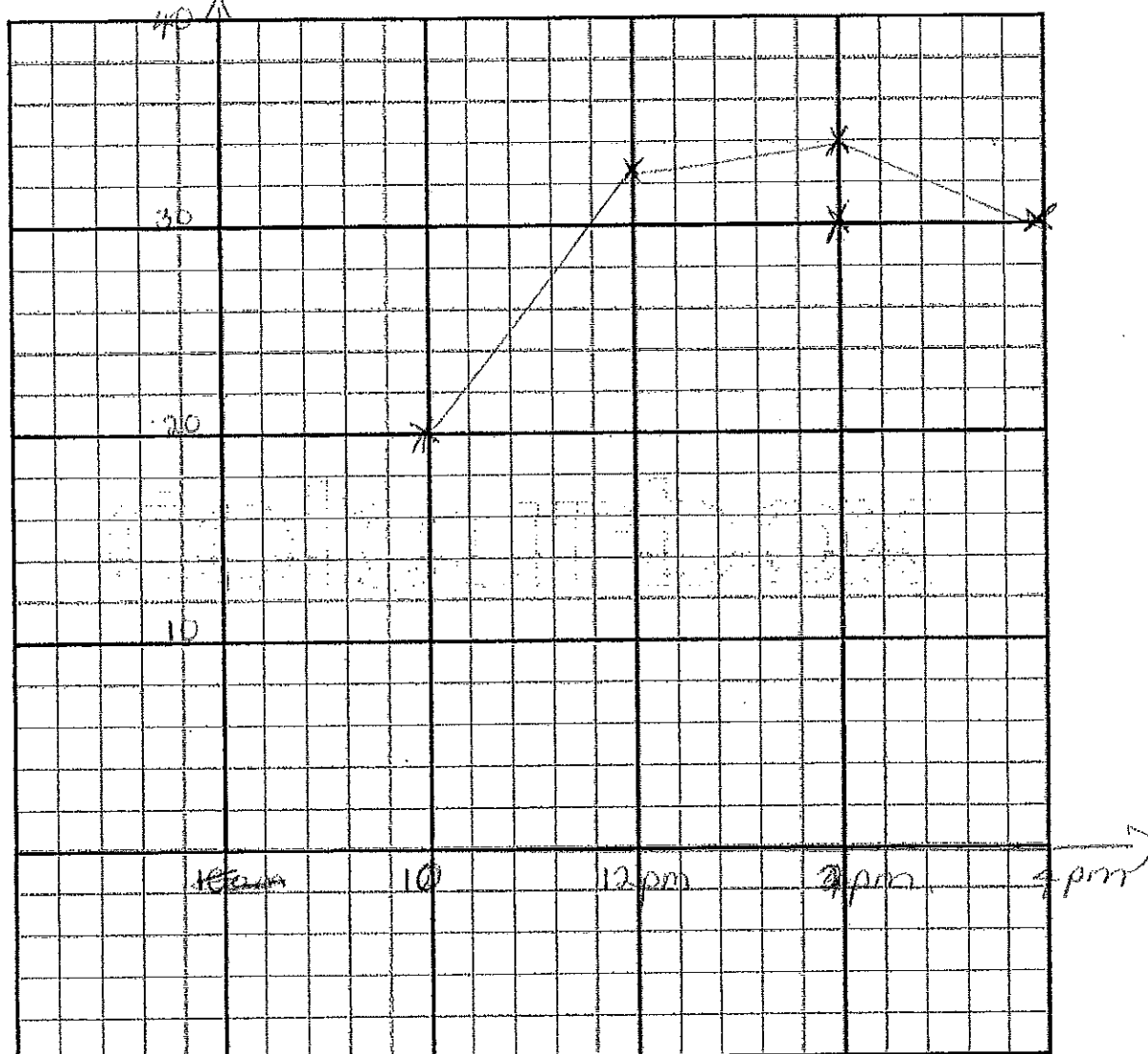
4. Calculate the average temperature for each time period and on the graph paper provided draw a graph to represent the following data (7 marks)

Time of Day hrs	Temperature In Direct Sun Light $^{\circ}\text{C}$			
	Trial 1	Trial 2	Trial 3	Average
10 am	20	20	20	20
12 noon	30	34	33	32.33
2 pm	35	36	31	34
4 pm	30	29	31	30

The effect of time of day on Temperature in Direct Sunlight

①

Average Temp in Direct Sunlight  $^{\circ}\text{C}$



Title Independent variable ①

correct plotting ①

END OF TEST (OUT OF 30 MARKS)

Line - ①

Correct axis ①

correct average ②

Labelled axis with units ①

Time of Day, in hours