St. Stephen's Girls' College Final Examination 2018-2019

Form 2 164 students

LC, KAL, LL, WYL, MLY

MATHEMATICS Paper II Time Allowed: 1 hour

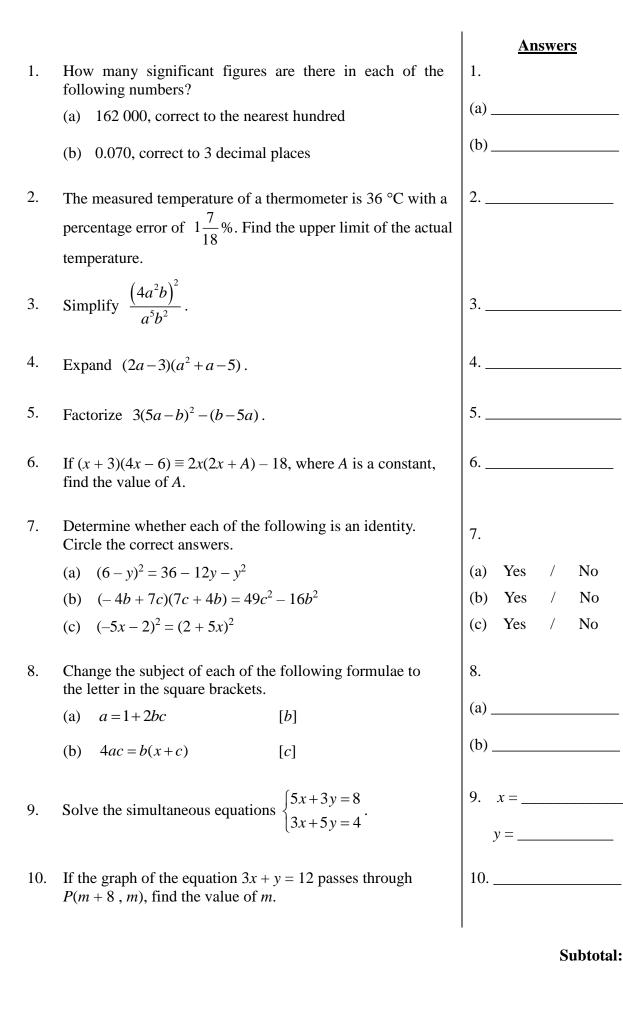
NT	No	Class	Division
Name:	NO.:	Class:	Division:

Instructions:

- Answer ALL questions in the spaces provided in this Question-Answer Paper.
- All rough work should be done on the rough work paper provided, but will not be marked.
- The diagrams in this paper are not necessarily drawn to scale.
- Unless otherwise specified, numerical answer should be either exact or correct to 3 significant figures.
- This paper carries 100 marks.

Marks:

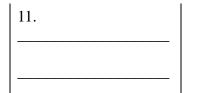
/ 100



Marks

/ 26

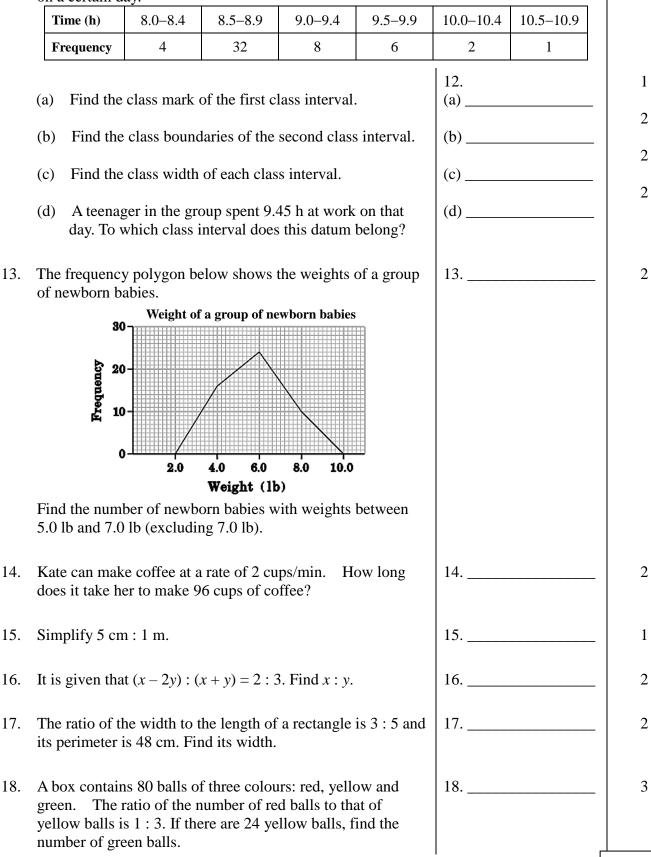
11. The weights of Philip and Daniel are x kg and y kg respectively. The sum of their weights is 72 kg and Daniel is 8 kg lighter than Philip. Form two simultaneous equations to show the above relations between x and y.



1

1

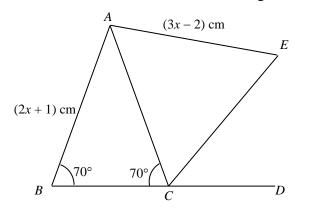
12. The frequency distribution table below shows the working time of a group of teenagers on a certain day.



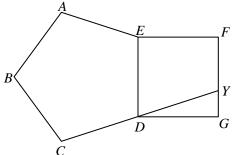
Page 3 of 6

Subtotal: / 21 https://www.study-together.com/edu/

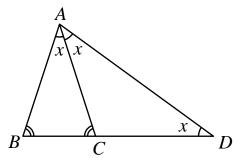
- 19. The scale of a map is 1 : 80000. If the distance between building *A* and building *B* on the map is 2.5 cm, find the actual distance between *A* and *B* in km.
- 20. The length of a screw in a scale drawing is 8 cm and its actual length is 2 mm. Find the scale of the drawing in the form 1: n.
- 21. In the figure, $\triangle ACE$ is an equilateral triangle. $\angle ABC = \angle ACB = 70^{\circ}$ and *BCD* is a straight line. Find *x*.

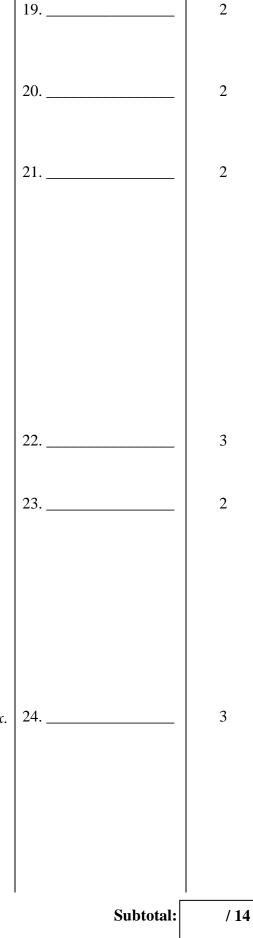


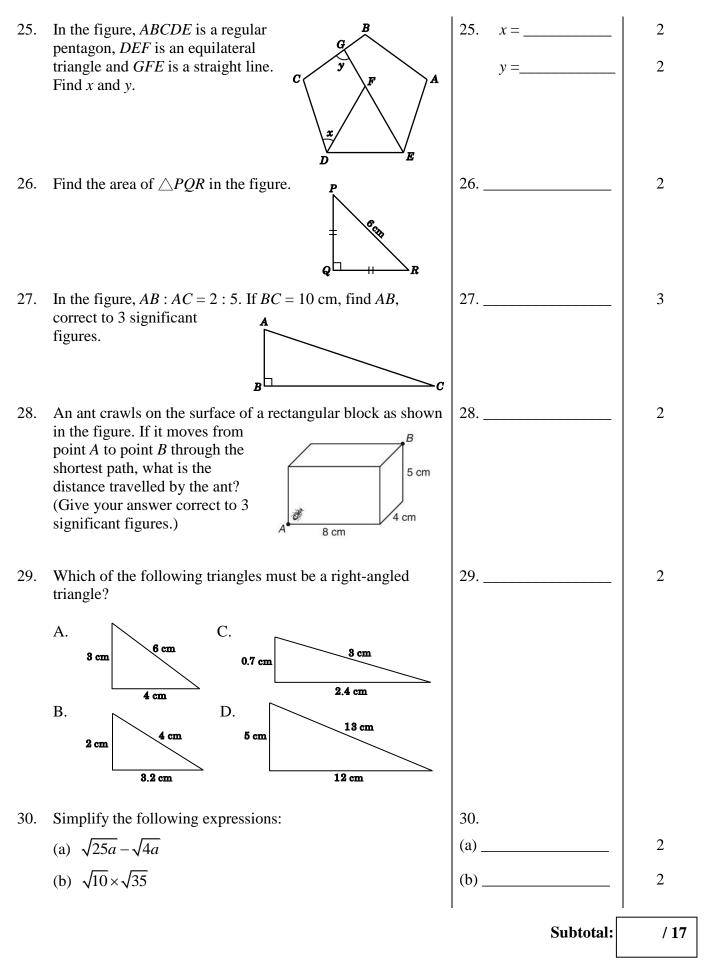
- 22. Find the difference in size of an interior angle and an exterior angle of a regular hexagon.
- 23. In the figure, *ABCDE* is a regular pentagon and *DEFG* is a square. *CDY* is a straight line. Find $\angle DYG$.

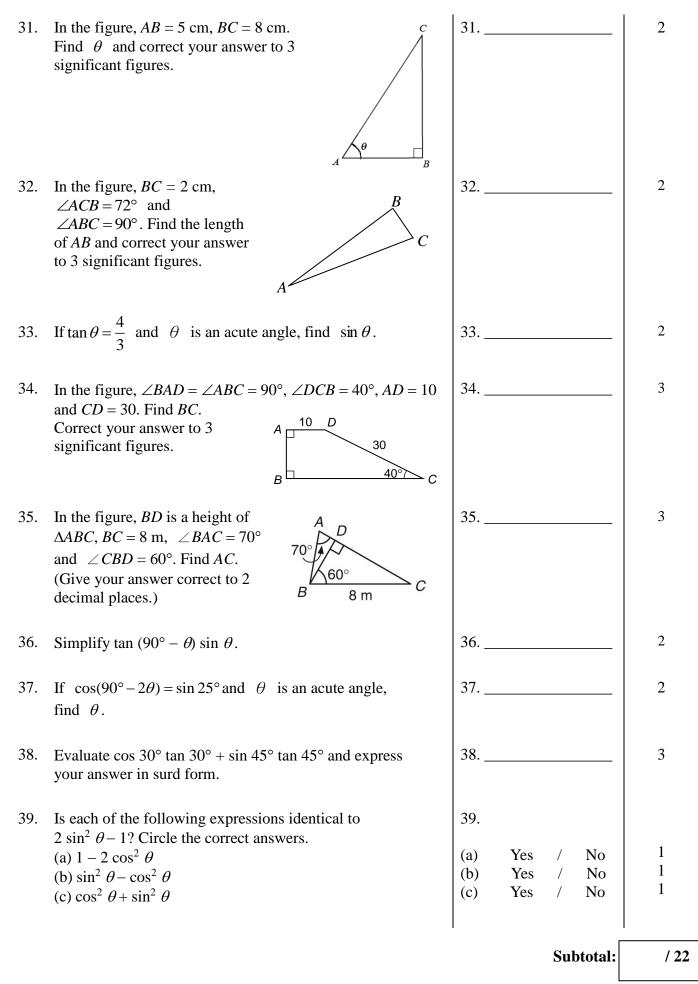


24. In the figure, *C* is a point on *BD* and $\angle ABC = \angle ACB$. Find *x*.









---End of Paper ---

Page 6 of 6