2012-DSE MATH CP

PAPER 1

HONG KONG EXAMINATIONS AND ASSESSMENT AUTHORITY
HONG KONG DIPLOMA OF SECONDARY EDUCATION EXAMINATION 2012

MATHEMATICS Compulsory Part PAPER 1

Question-Answer Book

8.30 am – 10.45 am (2½ hours)
This paper must be answered in English

INSTRUCTIONS

- 1. After the announcement of the start of the examination, you should first write your Candidate Number in the space provided on Page 1 and stick barcode labels in the spaces provided on Pages 1, 3, 5, 7, 9 and 11.
- 2. This paper consists of THREE sections, A(1), A(2) and B.
- 3. Attempt ALL questions in this paper. Write your answers in the spaces provided in this Question-Answer Book. Do not write in the margins. Answers written in the margins will not be marked.
- 4. Graph paper and supplementary answer sheets will be supplied on request. Write your Candidate Number, mark the question number box and stick a barcode label on each sheet, and fasten them with string INSIDE this book.
- 5. Unless otherwise specified, all working must be clearly shown.
- 6. Unless otherwise specified, numerical answers should be either exact or correct to 3 significant figures.
- 7. The diagrams in this paper are not necessarily drawn to scale.
- 8. No extra time will be given to candidates for sticking on the barcode labels or filling in the question number boxes after the 'Time is up' announcement.

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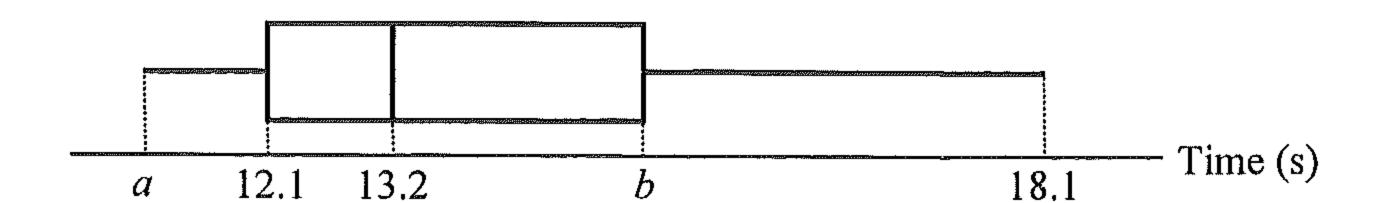
2012-DSE-MATH-CP 1-4

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7. The box-and-whisker diagram below shows the distribution of the times taken by a large group of students of an athletic club to finish a 100 m race:



The inter-quartile range and the range of the distribution are 3.2 s and 6.8 s respectively.

(a) Find a and b.

Answers written in the margins will not be marked.

(b) The students join a training program. It is found that the longest time taken by the students to finish a 100 m race after the training is 2.9 s less than that before the training. The trainer claims that at least 25% of the students show improvement in the time taken to finish a 100 m race after the training. Do you agree? Explain your answer.

(4 marks)

In Figure 1, AB, BC, CD and AD are chords of the circle. AC and BD intersect at E. It is given that BE = 8 cm, CE = 20 cm and DE = 15 cm.

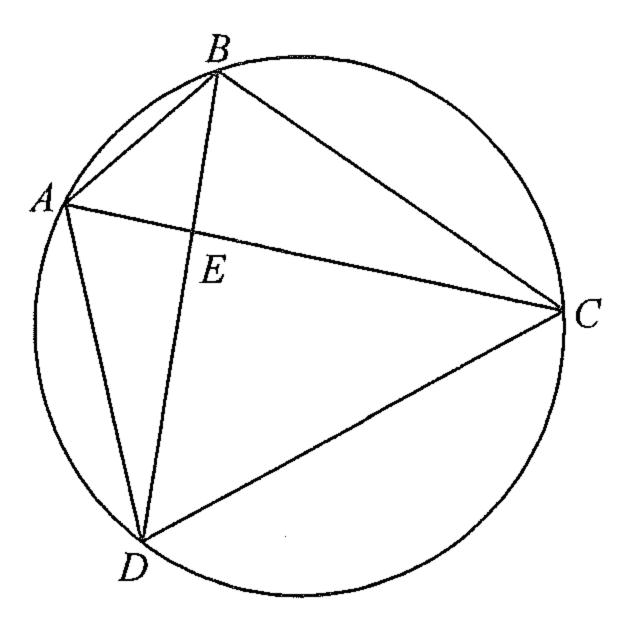


Figure 1

- (a) Write down a pair of similar triangles in Figure 1. Also find AE.
- (b) Suppose that AB = 10 cm. Are AC and BD perpendicular to each other? Explain your answer. (5 marks)

Answers written in the margins will not be marked.

9. In Figure 2, the volume of the solid right prism ABCDEFGH is $1\,020\,\mathrm{cm}^3$. The base ABCD of the prism is a trapezium, where AD is parallel to BC. It is given that $\angle BAD = 90^\circ$, $AB = 12\,\mathrm{cm}$, $BC = 6\,\mathrm{cm}$ and $DE = 10\,\mathrm{cm}$.

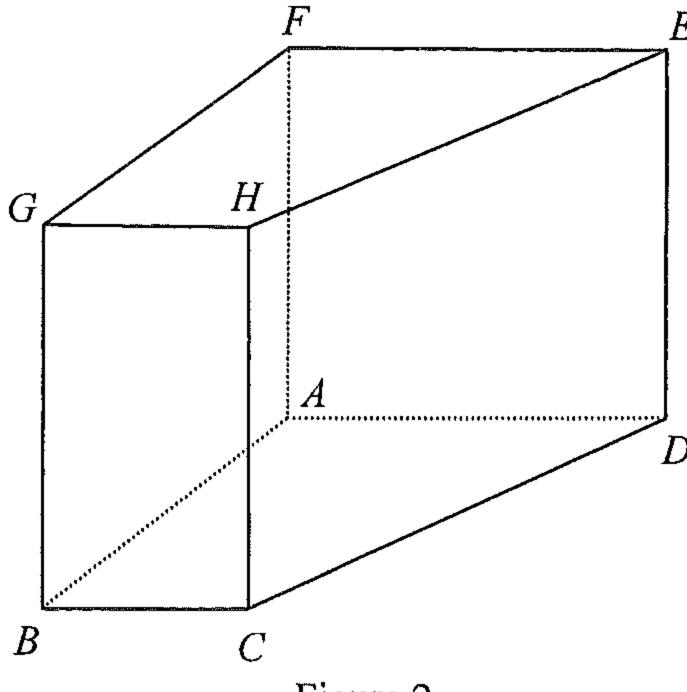


Figure 2

Find

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- (a) the length of AD,
- (b) the total surface area of the prism ABCDEFGH.

(5 marks)

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(a)	Find the cost of painting a can of surface area 13 m ² .	4 (4 mark
(b)	There is a larger can which is similar to the can described in (a). If the volume of the is 8 times that of the can described in (a), find the cost of painting the larger can.	he larger c (2 mark
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(b) Figure 4 shows the graph of $y = 15x^2 - 63x + 72$. Q is a variable point on the graph in the first quadrant. P and R are the feet of the perpendiculars from Q to the x-axis and the y-axis respectively.

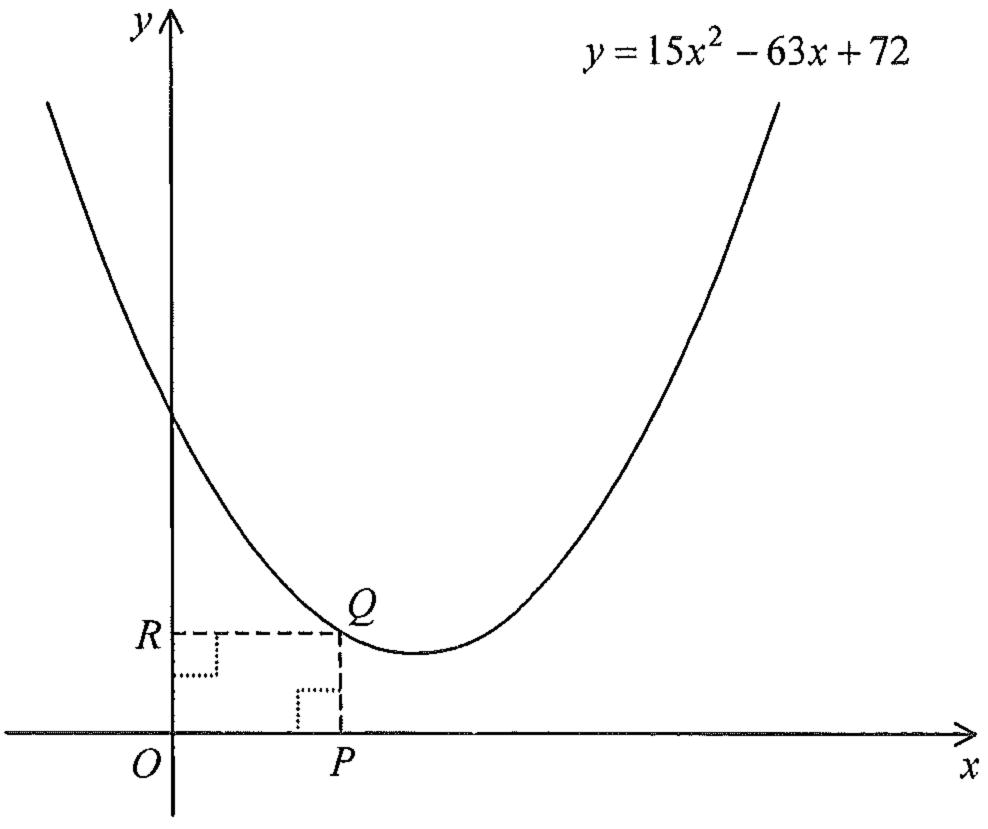


Figure 4

- (i) Let (m, 0) be the coordinates of P. Express the area of the rectangle OPQR in terms of m.
- (ii) Are there three different positions of Q such that the area of the rectangle OPQR is 12? Explain your answer.

Answers written in the margins will not be marked.

(5 marks)

Page total

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Answers written in the margins will not be marked.

Go on to the next page

Page total

(a)	(i)	Describe the geometric relationship between Γ and L .
	(ii)	Find the equation of Γ . (5 m
(b)	The e	equation of the circle C is $(x-6)^2 + y^2 = 4$. Denote the centre of C by Q.
	(i)	Does Γ pass through Q ? Explain your answer.
	(ii)	If L cuts C at A and B while Γ cuts C at H and K, find the ratio of the and ΔAQH to the area of ΔBQK .
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is 10	standard deviation of the test scores obtained by a class of students in a Mathematics. All the students fail in the test, so the test score of each student is adjusted is increased by 20% and then extra 5 marks are added.	
(a)	Find the standard deviation of the test scores after the score adjustment.	(1 mar
(b)	Is there any change in the standard score of each student due to the score adjustment your answer.	nent? Expla (2 mark
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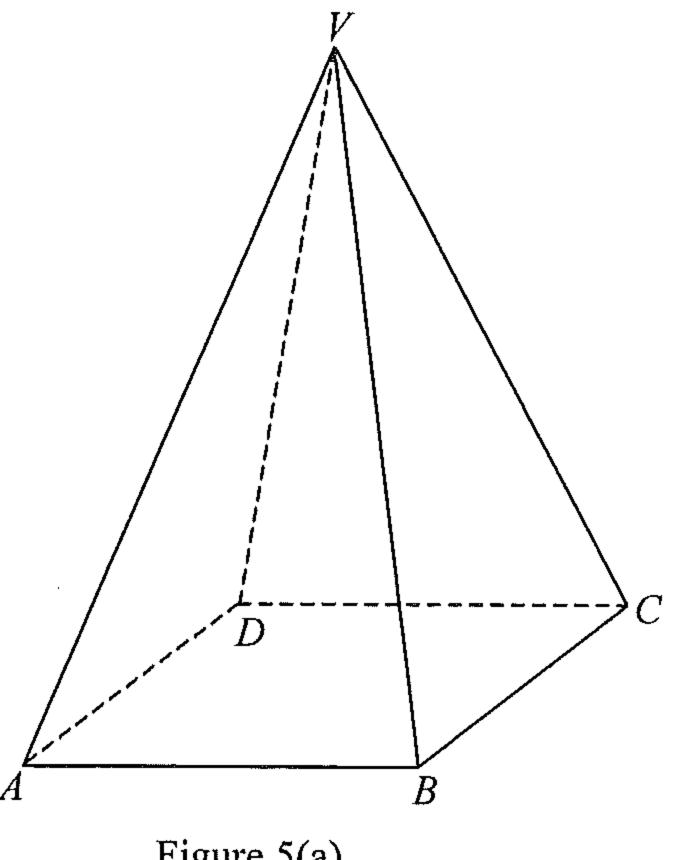


Figure 5(a)

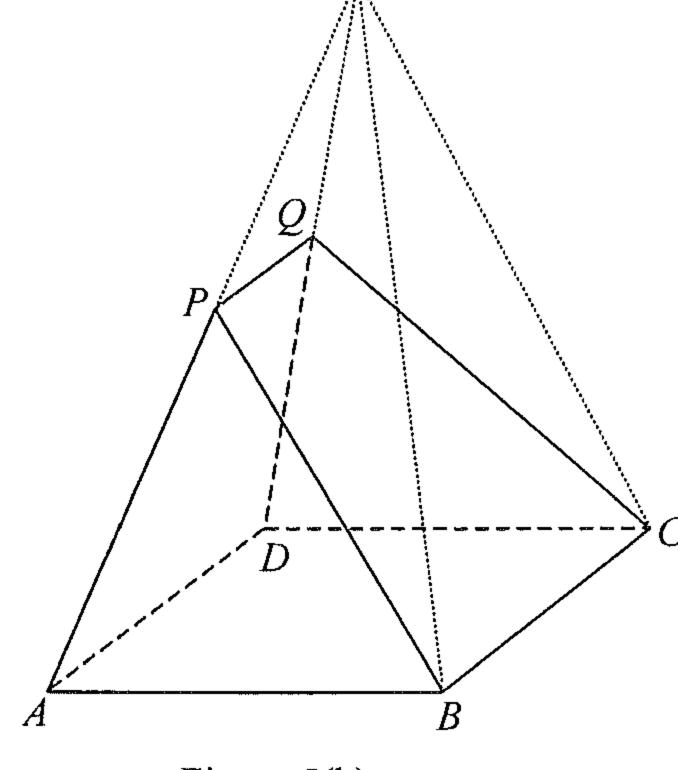


Figure 5(b)

(a) Find the length of AP.

(2 marks)

Answers written in the margins will not be marked.

- Let α be the angle between the plane PBCQ and the base ABCD. (b)
 - Find α . (i)
 - Let β be the angle between PB and the base ABCD. Which one of α and β is (ii) greater? Explain your answer.

(6 marks)

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19.	In a	city, th	e air cargo terminal X of an airport handles goods of weight $A(n)$ tonnes in the n th year					
	and	b are p	art of its operation, where n is a positive integer. It is given that $A(n) = ab^{2n}$, where a positive constants. It is found that the weights of the goods handled by X in the 1st year and x since the start of its operation are 254 100 tonnes and 307 461 tonnes respectively.					
	(a)	(i)	Find a and b . Hence find the weight of the goods handled by X in the 4th year since the start of its operation.					
		(ii)	Express, in terms of n , the total weight of the goods handled by X in the first n years since the start of its operation. (6 marks)					
	(b)		air cargo terminal Y starts to operate since X has been operated for 4 years. $B(m)$ tonnes be the weight of the goods handled by Y in the m th year since the start of its					
		operation, where m is a positive integer. It is given that $B(m) = 2ab^m$.						
		(i)	The manager of the airport claims that after Y has been operated, the weight of the goods handled by Y is less than that handled by X in each year. Do you agree? Explain your answer.					
		(ii)	The supervisor of the airport thinks that when the total weight of the goods handled by X and Y since the start of the operation of X exceeds 20 000 000 tonnes, new facilities					
			should be installed to maintain the efficiency of the air cargo terminals. According to the supervisor, in which year since the start of the operation of X should the new facilities be installed?					
0			(7 marks)					
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