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Kertas Ra Forecast Pa
Tahun 20 Year 2010

Forecast Paper
Year 2010

(SULIT)

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**SEMINAR
PREVIEW**

Presented by,

SHIREEN

Principal

MasterMind Training Academy



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2010

**MATHEMATICS
SEMINAR**



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MATHS

Paper1

(40 objective questions)

1 hour 15 mins , 40 marks

Paper 2

(20 subjective questions)

1hr 45 mins , 60marks

10 HOTTOPICS

- | | |
|--------------------------------|--------------------|
| 1. Lines & Angles | 6. Coordinates |
| 2. Polygons | 7. Rate & Ratio |
| 3. Solid Geometry | 8. Circle |
| 4. Algebraic Expression | 9. Statistic |
| 5. Geometrical
Construction | 10. Transformation |

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Forecast Year 2010

PMR Math

Topics (Form)	Number of questions								Forecast 2010	
	2004		2005		2006		2007		P1	P2
	P1	P2	P1	P2	P1	P2	P1	P2		
1. Whole Numbers (1)	1	–	1	1	1	–	1	–	1	–
2. Number Patterns and Sequences (1)	3	–	3	–	2	–	2	–	2	–
3. Fractions (1)	1	1	–	–	1	1	1	–	–	1
4. Decimals (1)	1	1	–	–	–	–	1	1	–	1
5. Percentages (1)	2	–	1	–	1	–	1	–	1	–
6. Integers/Directed Numbers (1, 2)	1	–	1	1	–	1	1	1	–	–
7. Basic Measurements (1)	3	–	1	–	1	–	1	–	1	–
8. Lines and Angles (1, 3)	1	–	1	–	4	–	–	–	3	–
9. Polygons (1, 3)	2	1	5	–	3	–	4	–	3	–
10. Perimeter and Area (1)	2	–	2	–	2	–	3	–	2	–
11. Solid Geometry (1, 2, 3)	2	1	3	–	4	–	4	1	4	–
12. Squares, Square Roots, Cubes and Cube Roots (2)	–	1	–	1	–	1	–	–	–	1
13. Algebraic Expressions (1, 2, 3)	–	3	–	3	–	3	–	4	–	3
14. Linear Equations (2, 3)	–	1	1	1	1	1	1	1	1	1
15. Algebraic Formulae (3)	–	1	–	1	–	1	–	–	–	1
16. Geometrical Constructions (2, 3)	1	1	–	2	–	2	–	1	–	2
17. Pythagoras' Theorem (2)	1	–	1	–	–	–	1	–	1	–
18. Ratios, Rates and Proportions (2, 3)	2	–	3	–	3	–	3	–	3	–
19. Coordinates (2)	4	–	2	–	3	–	2	–	3	–
20. Loci in Two Dimensions (2)	1	1	1	1	1	1	1	1	1	1
21. Circles (2, 3)	6	–	6	–	5	–	5	–	5	–
22. Transformation (2, 3)	1	1	1	2	1	2	1	3	1	2
23. Statistics (2, 3)	4	2	4	1	4	2	4	2	4	2
24. Indices (3)	–	2	–	2	–	2	–	2	–	2
25. Linear Inequalities (3)	1	1	1	1	1	1	1	1	1	1
26. Graphs of Functions (3)	–	1	2	1	2	1	2	1	2	1
27. Trigonometry (3)	–	1	–	2	–	1	–	–	–	–
Total	40	20	40	20	40	20	40	20		

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COMMON ERRORS !

Error in the signs (+ and -) when removing brackets

(X) Incorrect

$$7x - (3x - 2) = 7x - 3x - 2 \\ = 4x - 2$$

(✓) Correct

$$7x - (3x - 2) \\ = 7x - 3x + 2 \leftarrow (-) \times (-) = (+) \\ = 4x + 2$$

(X) Incorrect

$$5 - x \geq 3 \quad \text{or} \quad 5 - x \geq 3 \\ x \geq 3 - 5 \\ x \geq -2$$

(✓) Correct

$$5 - x \geq 3 \\ -x \geq 3 - 5 \\ -x \geq -2 \\ x \leq 2$$

Inequality is reversed.

(X) Incorrect

$$\frac{x^2 - 9}{x - 3} = \frac{(x - 3)(x - 3)}{x - 3} \\ = x - 3$$

(✓) Correct

$$\frac{x^2 - 9}{x - 3} = \frac{(x - 3)(x + 3)}{(x - 3)} \leftarrow \text{difference of two squares} \\ = x + 3$$

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Quick Recap- Integers F1,2

Integers

Integers

..., -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, ...

negative integers zero positive integers

Together

Separate

Same
symbol

$$+, + = +$$

$$-, - = +$$

Different
symbol

$$-, + = -$$

$$+, - = -$$

**Same
symbol**

1) Symbol -
copy

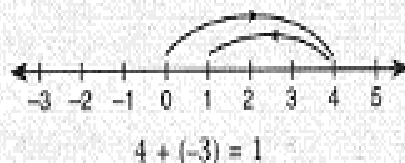
2) Value -
plus

**Different
symbol**

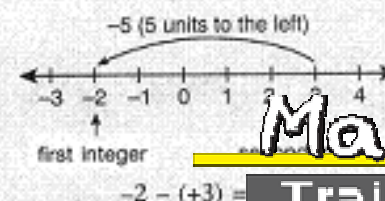
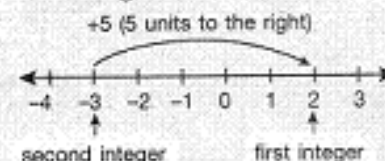
1) Symbol -
*take bigger
digit's symbol*

2) Value -
minus

Addition of integers



Subtraction of integers



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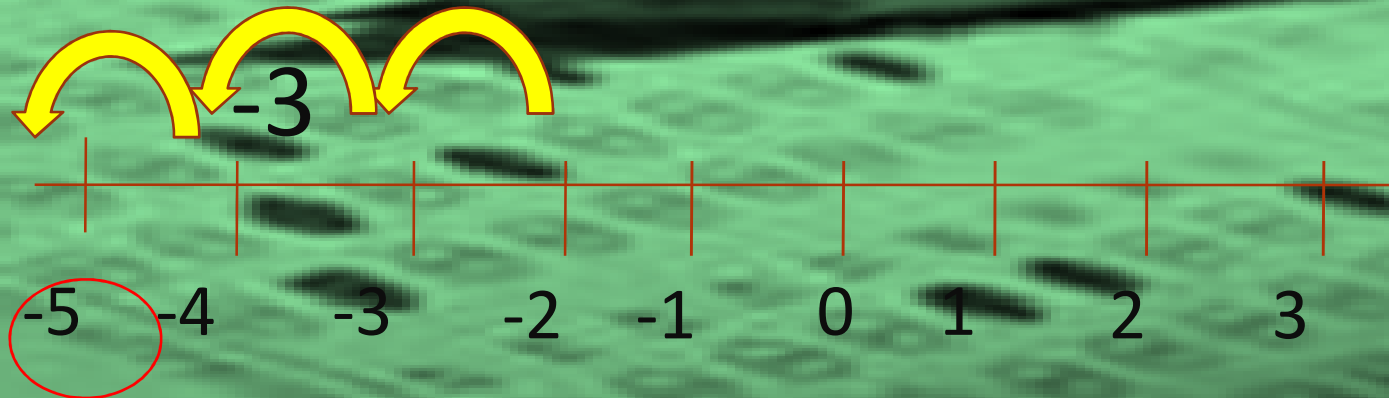
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MEMORY SKILLS - STORY

School Textbook

Maths QUES:

$$-2 - 3 = \dots\dots\dots$$



MEMORY SKILLS - STORY

How shall u draw the NUMBER LINE
now?

+

$$-123 - 456 =$$

$$-123 + 456 =$$

$$-123 - (-456) =$$

-

MASTERMIND
STORY

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Scale

Object
BIGGER

• 1 : 2

Object
Smaller

• 1 : 0.5

Same
Size

• 1 : 1

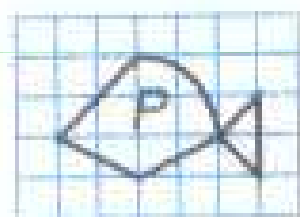
■ drawing / object

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Scale Drawing – F3

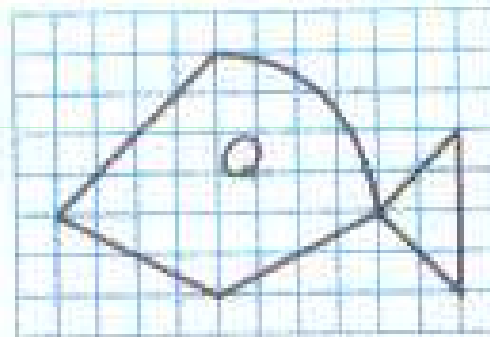
$$\text{Scale} = \frac{\text{size of drawing}}{\text{size of object}} \\ = 1 : n$$



Scale $1 : \frac{1}{2}$



Scale $1 : 2$

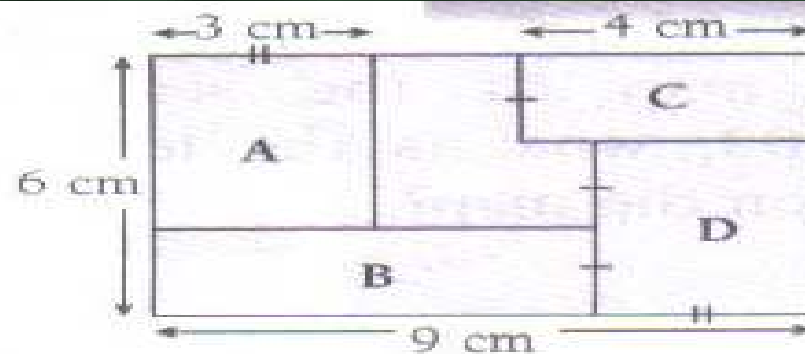


- If Q is the scale drawing of P , the scale used is $1 : \frac{1}{2}$.
(If $n < 1$, the drawing is bigger than the object.)

- If P is the scale drawing of Q , the scale used is $1 : 2$.
(If $n > 1$, the drawing is smaller than the object.)

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The diagram shows the floor plan of a house, measuring $24\text{ m} \times 36\text{ m}$. Which of the rooms labelled **A**, **B**, **C** and **D**, is a rectangle measuring $8\text{ m} \times 24\text{ m}$?

Solution

$$\begin{aligned}\text{Scale} &= 6\text{ cm} : 24\text{ m} \\ &= 1\text{ cm} : 4\text{ m}\end{aligned}$$

Thus, 1 cm represents 4 m on actual ground.

In the diagram, room **B** measures $2\text{ cm} \times 6\text{ cm}$.

2 cm represents $2 \times 4\text{ m} = 8\text{ m}$.

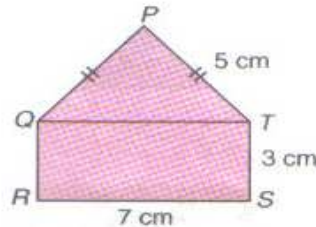
6 cm represents $6 \times 4\text{ m} = 24\text{ m}$.

Thus, room **B** is a rectangle measuring $8\text{ m} \times 24\text{ m}$.

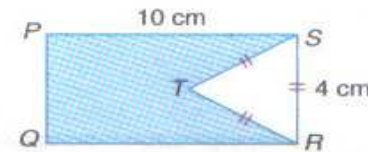
Quick Recap- Perimeter & Area F1

Perimeter

- The perimeter of a shape is the total length of all the sides enclosing the shape.



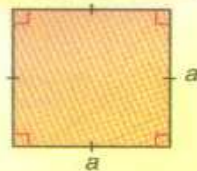
$$\begin{aligned}\text{Perimeter of shape} &= PQ + QR + RS + ST + TP \\ &= 5 + 3 + 7 + 3 + 5 \\ &= 23 \text{ cm}\end{aligned}$$



$$\begin{aligned}\text{Perimeter of shaded region} &= PQ + QR + RT + TS + SP \\ &= 4 + 10 + 4 + 4 + 10 \\ &= 32 \text{ cm}\end{aligned}$$

Area

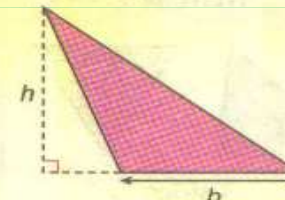
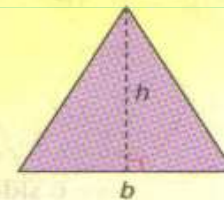
- The area of a shape is the total amount of its flat surface.



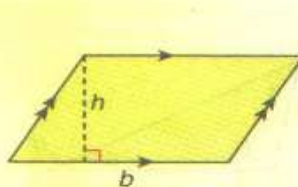
$$\begin{aligned}\text{Area of square} &= \text{length} \times \text{breadth} \\ &= a \times a\end{aligned}$$



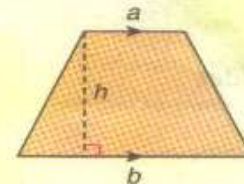
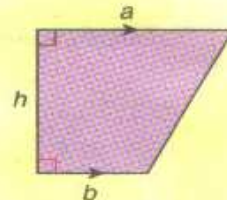
$$\begin{aligned}\text{Area of rectangle} &= \text{length} \times \text{breadth} \\ &= l \times b\end{aligned}$$



$$\begin{aligned}\text{Area of triangle} &= \frac{1}{2} \times \text{base} \times \text{height} \\ &= \frac{1}{2} \times b \times h\end{aligned}$$



$$\begin{aligned}\text{Area of parallelogram} &= \text{base} \times \text{height} \\ &= b \times h\end{aligned}$$



$$\begin{aligned}\text{Area of trapezium} &= \frac{1}{2} \times (\text{sum of parallel sides}) \times \text{height} \\ &= \frac{1}{2} \times (a + b) \times h\end{aligned}$$

Conversion of units

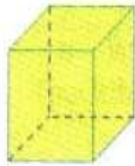
- 1 cm² = 100 mm²
- 1 m² = 10 000 cm²
- 1 km² = 1 000 000 m²

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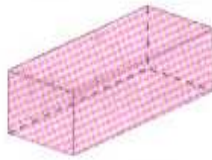
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Quick Recap- Solid Geometry F1,2,3

Solids



Cube



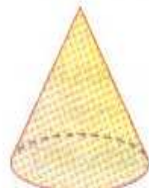
Cuboid



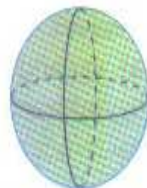
Pyramid



Cylinder



Cone



Sphere

Total surface area

 Cube	$6x^2$
 Cuboid	$2lb + 2bh + 2lh$
 Cylinder	$2\pi r^2 + 2\pi rh$

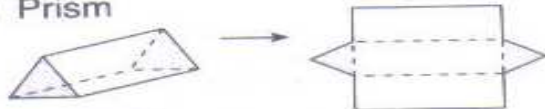
Total surface area

 Cone	$\pi r^2 + \pi rl$
 Base area + areas of 4 triangles	
 Sphere	$4\pi r^2$

SOLID GEOMETRY II

GEOMETRIC SOLIDS AND THEIR NETS

(a) Prism



(b) Pyramid

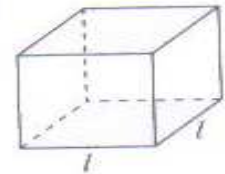


(c) Cylinder



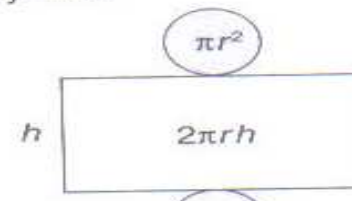
TOTAL SURFACE AREA OF GEOMETRIC SOLIDS

(a) Cube

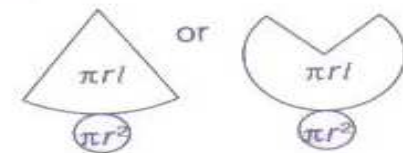


$$\text{Surface area} = 6 \times l^2$$

(b) Cylinder



(c) Cone



$$\text{Total surface area} = \pi rl + \pi r^2$$

(d) Sphere



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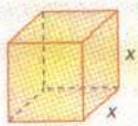
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SOLID GEOMETRY III

Solid

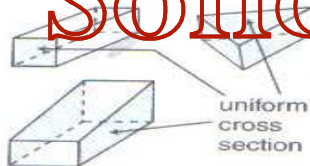
Geometry

Cube



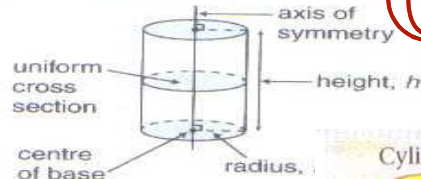
$$x^3$$

RIGHT PRISMS



Volume of prism
= area of cross section \times height

RIGHT CIRCULAR CYLINDERS



Volume of cylinder
= area of base \times height
= $\pi r^2 h$

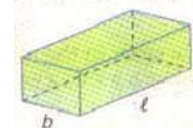
CONVERSION OF UNITS OF VOLUME

- $1 \text{ cm}^3 = 1\,000 \text{ mm}^3$
- $1 \text{ m}^3 = 1\,000\,000 \text{ cm}^3$

Units of volume of liquids:

- $1 \text{ m}\ell = 1 \text{ cm}^3$
- $1\,000 \text{ m}\ell = 1 \text{ litre}$
- $1\,000 \text{ litres} = 1 \text{ m}^3$

Cuboid



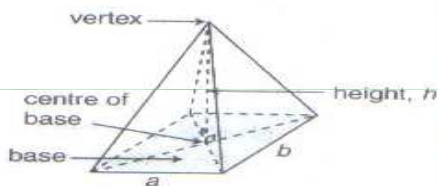
$$lbh$$

Pyramid



$$\frac{1}{3}lwh$$

RIGHT PYRAMIDS



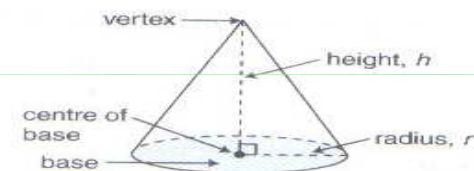
Volume of pyramid
= $\frac{1}{3} \times$ area of base \times height
= $\frac{1}{3}abh$

Cone



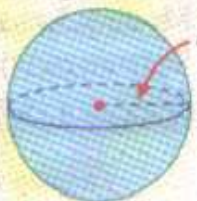
$$\frac{1}{3}\pi r^2 h$$

RIGHT CIRCULAR CONES



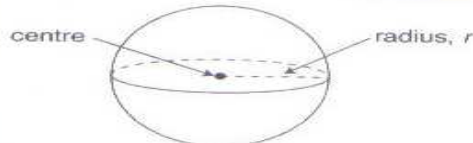
Volume of cone
= $\frac{1}{3} \times$ area of base \times height
= $\frac{1}{3}\pi r^2 h$

Sphere



$$\frac{4}{3}\pi r^3$$

SPHERES AND HEMISPHERES



Volume of sphere = $\frac{4}{3}\pi r^3$



Volume of hemisphere
= $\frac{1}{2} \times \frac{4}{3}\pi r^3$
= $\frac{2}{3}\pi r^3$

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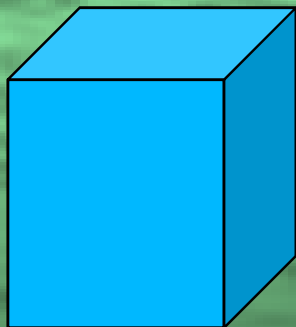
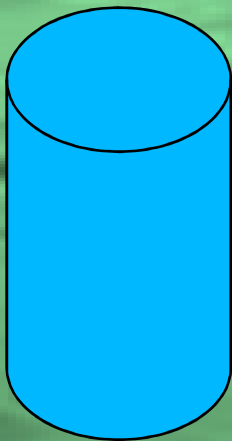
Solid Geo / Volume

Same Size

Sharp
Point

Area X
Height

$\frac{1}{3} \times \text{Area} \times \text{Height}$



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THANK YOU

**SEE YOU @
PMR INTENSIVE**

Julai, Ulangkaji TING. 1

Ogos, Ulangkaji TING 2

Sep , Ulangkaji TING 3

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- INTENSIVE

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Jul Std 5 Revision	Aug Form 2 Revision	Sep Form 5 Revision
Aug Std 6 Revision	Sep Form 3 Revision	Oct Kertas Model
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Sertailah

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DAPATKAN KERTAS RAMALAN 2010



SKOR A

- Kertas Ramalan 2010

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- Maths
- Science
- Se

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English
Mathematics
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PMR SEMINAR

11th September (Fri)

12th September (Sat)

13th September (Sun)

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PMR Seminar

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Date	Time	Subject	* Schedule is subject to change
11 th Sept, Friday	8.00 pm – 9.30pm	KEMAHIRAN HIDUP By Teacher Sandii, Highly qualified tutor with more than 5 years teaching experience	
12 th September, Saturday	10.00am – 12.00pm	ENGLISH By Teacher Candy Khoo Bachelor degree from University of London Dedicated & popular tutor with over 3 years of teaching experience	
	12.00pm – 2.00pm	MATHEMATICS By Teacher Terence Degree.(Hons) from E.UTM Specialized in teaching Maths for over 5 years.	
	2.00pm – 3.00pm Light Refreshment is served		
	3.00pm – 5.00pm	SEJARAH By Teacher Abdul Halim Bachelor Degree from SouthPac Univ. USA More than 10 years of teaching experience	
13 th September, Sunday	10.00am – 12.00pm	BAHASA MALAYSIA By Cikgu Zahura Master in Counseling, UM. Pengarang buku & melebihi 10 tahun pengalaman dalam Bahasa Malaysia	
	12.00pm – 2.00pm	SCIENCE By Sir Azrul Ridzuan Master Degree from UUM More than 5 years of teaching experience, specialized in Science	
	2.00pm – 3.00pm Light Refreshment is served		
	3.00pm – 5.00pm	GEOGRAFI By Anebella Florence (Hons) Degree from De Monfort University UK Specialized in teaching geography for more than 7 years	



The seminar is conducted by a team of experienced teachers and examiners.

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School :

Parent's Contact :

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☐ No

Do you want to Top Up RM 5 for certificate & trophy?

☐

☐

Subjects:

☐ BM

☐ English

☐ Mathematics

☐ Science

☐ Sejarah

Price:

☐ 1 subject (RM 50)

☐ 2 subjects (RM 69)

☐ 3 subjects (RM 79)

☐ 4 subjects (RM 89)

☐ 5 subjects (RM 99)

☐ 6 subjects (RM 109)

For enquiries, call MasterMind Training Academy 03- 7727 2305 (DU) @ 03-8024 6980 (USJ)



PMR Graduation

Date : 1st November 2017

Time : 7.30pm - 8.30pm

Venue :

MasterMind
Training Academy

7.30pm **Activities** Graduation Certificate to PMR & SPM students

presented by MasterMind Training Academy

8.00pm **Introduction On**
Holiday Programs &

* Pre- Form 4 Classes

8.30pm
Games ,

Karaoke,

Dancing

Chocolate & Baking Party





P . M . R .



THANK YOU

SEE YOU

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MasterMind

Training Academy

ALL THE BEST!!!



Take a good rest before your exam and
be well prepared!