Mathematics

Content of the Uniform Test

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Topics</th>
<th>Rating in last year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Directed Numbers</td>
<td>30%</td>
</tr>
<tr>
<td>2</td>
<td>Basic Algebra</td>
<td>50%</td>
</tr>
<tr>
<td>4</td>
<td>Basic Geometry</td>
<td>20%</td>
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</tbody>
</table>
1.1 Positive and Negative Numbers

1.2 Directed Numbers on the Number Line
   A. Number lines
   B. Order

1.3 Addition and Subtraction of Directed Numbers
   A. Addition on the number line
   B. Subtraction on the number line
   C. Mixed addition and subtraction of directed numbers

1.4 Multiplication and Division of Directed Numbers
   A. Multiplication of directed numbers
   B. Division of directed numbers

2.1 Symbols and Algebra
   A. Using Symbols
   B. Notations and operations used in algebra
   C. Comparison between arithmetic language and algebraic language

2.2 Formulae and Substitution

2.3 Linear Equations in One Unknown
   A. The concept of equations
   B. Solving equations
   C. Solve problems using simple equations

4.1 Angles
   A. Naming angles
   B. Units of angles
   C. Types of angles

4.2 The Use of Protractor
   A. Measuring angles
   B. Drawing angles

4.3 Triangles
   A. Types of triangles
   B. Angles sum of a triangle

4.4 Polygons
以下是各種不同標籤的解讀：

<table>
<thead>
<tr>
<th>標籤</th>
<th>適合學生年級</th>
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<tbody>
<tr>
<td>MAT</td>
<td>中一至中三級適用的數學補充練習</td>
</tr>
<tr>
<td>S.1-3</td>
<td>Suitable for S.1 to S.3 Mathematics</td>
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<tr>
<td>MAT</td>
<td>中四至中五級適用的數學補充練習</td>
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<tr>
<td>S.4-5</td>
<td>Suitable for S.4 to S.5 Mathematics</td>
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<tr>
<td>AM</td>
<td>中四至中五級適用的附加數學補充練習</td>
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<tr>
<td>S.4-5</td>
<td>Suitable for S.4 to S.5 Additional Mathematics</td>
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<tr>
<td>PM</td>
<td>中六至中七級適用的純粹數學補充練習</td>
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<tr>
<td>S.6-7</td>
<td>Suitable for S.6 to S.7 Pure Mathematics</td>
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<tr>
<td>M&amp;S</td>
<td>中六至中七級適用的數學及統計補充練習</td>
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<tr>
<td>S.6-7</td>
<td>Suitable for S.6 to S.7 Mathematics &amp; Statistics</td>
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Marks Allocation

<table>
<thead>
<tr>
<th>Type of Assessment</th>
<th>Marks</th>
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<tbody>
<tr>
<td>Quiz 1</td>
<td>25 marks</td>
</tr>
<tr>
<td>Uniform Test</td>
<td>100 marks</td>
</tr>
<tr>
<td>Quiz 2</td>
<td>25 marks</td>
</tr>
<tr>
<td>Daily Marks</td>
<td>150 marks</td>
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<tr>
<td>Examination</td>
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Overall Total = Daily Marks × 40% + Examination × 60%
Format of the Uniform Test

<table>
<thead>
<tr>
<th>Section</th>
<th>Format</th>
<th>No. of Qu.</th>
<th>Rating</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>M.C. Questions</td>
<td>10</td>
<td>30%</td>
</tr>
<tr>
<td>B</td>
<td>Short Questions</td>
<td>10 – 12</td>
<td>60%</td>
</tr>
<tr>
<td>C</td>
<td>Problem Solving</td>
<td>1 – 2</td>
<td>10%</td>
</tr>
</tbody>
</table>

Instructions:

1. Answer **ALL** questions on the answer sheet provided.
2. Give the best answer for the multiple choice questions.
3. All working steps in Section B should be shown clearly.
4. Provide answers **ONLY** for questions in Sections A.

Section A Question 4
On a certain day, the temperature fell from 4℃ to −2℃. Find the temperature change on that day.

A. +6℃    A. +4℃ − (−2℃) = +6℃
B. +2℃    B. +4℃ + (−2℃) = +2℃
C. −2℃    C. −2℃ + 4℃ = −2℃
D. −6℃    D. (−2℃) − 4℃ = −6℃

Section A Question 10
Which one of the following is/are polygon(s) ?

I.  
II.  
III.  
IV.  

A. I, III
B. II, III
C. II, IV
D. I, II, III, IV
Section B Question 2
Use an algebraic expression to represent each of the following sentences.
(b) Divide the sum of two and \( n \) by \( m^2 \).
\[
\frac{(2 + n)}{m^2}
\]

Section B Question 6
Name the type of the following marked angles.
(a) Right Angle  
(b) Obtuse Angle  
(c) Straight Angle

多謝中一級家長
細心的聆聽