

*Division*

**P**

Year 3

# ASIAN MATHS OLYMPIAD 2015 CONTEST



**Full Name:**

**Class:**

**Date:**

**Time:**

**School Name:**

## Rules and Regulations

(Please read these rules and regulation carefully)

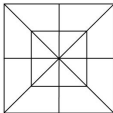
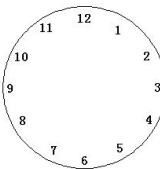
1. Please fill in your **FULL name** correctly, class, school name and the date and time of contest clearly in the spaces above. Those who do not fill in the required particulars will be disqualified automatically.
2. Do not open the question booklet until you are told to do so. You may only use **2B** pencil when answering the questions.
3. No calculators and any unauthorised electronic devices (including mobile phones) are allowed during the contest.
4. Strict silence must be observed at all times in the examination hall and please be reminded that you **MAY NOT** leave your seat without permission.
5. If you have any request or enquiry, please raise your hand and wait for an invigilator.
6. Only one candidate is allowed to leave the hall at a time. You are required to return to the hall within 10 minutes or else you will automatically be disqualified from the contest.
7. Each question in the contest have been verified by experienced trainers, thus no further explanation will be given.
8. The time allowed for the paper is **90 minutes**. You must stop writing when you are told to do so.
9. You **MUST** fill in your answer in the answer sheet provided in second page of the question booklet. You will not be awarded marks for any answer written in the question booklet.
10. Please be reminded that this is a contest and not an examination, do not expect to answer all types of questions.
11. **Please tear off the answer sheet carefully and returned to invigilator along with contest paper. Participant only can bring back the contest papers on next week.**
12. **Please be reminded that if the contestants can't attend the contest, we don't accept any replacement contestants. If found any, the contestant will be disqualified automatically.**

### Scoring System

1. For **Question 1- 10, 3 marks** will be awarded for each correct answer.  
For **Question 11- 20, 4 marks** will be awarded for each correct answer.  
For **Question 21- 25, 6 marks** will be awarded for each correct answer.  
However, you will NOT be penalised for each incorrect answer.
2. The organizer reserves the right to disqualified the event of malpractice to differentiate between those outstanding students.
3. Contestants or a team who are disqualified from the contest will be forfeited any right to re-sit this year.



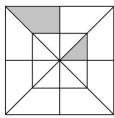
<b>Division</b> <b>P</b> Year 3	<b>2015</b> <b>ANSWER SHEET</b>	
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<b>1</b>		<b>6</b>		<b>11</b>		<b>16</b>		<b>21</b>	
<b>2</b>		<b>7</b>		<b>12</b>		<b>17</b>		<b>22</b>	
<b>3</b>		<b>8</b>		<b>13</b>		<b>18</b>		<b>23</b>	
<b>4</b>		<b>9</b>		<b>14</b>		<b>19</b>		<b>24</b>	
<b>5</b>		<b>10</b>		<b>15</b>		<b>20</b>		<b>25</b>	

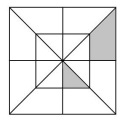


- 1 Calculate:  
 $20.5 - 6.4 + 2.5 - 3.6 =$  \_\_\_\_\_ (3 marks)

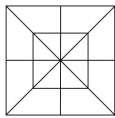
- 2 Observe the pattern of shaded region shown in graph 1,2 and 4 below , then draw the shaded region of graph 3



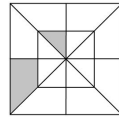
graph1



graph2



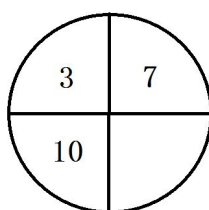
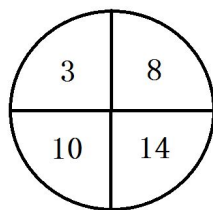
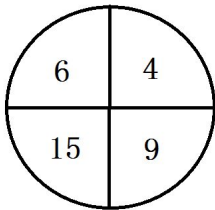
graph3



graph4

(3 marks)

- 3 Find pattern and fill in the blank. \_\_\_\_\_



(3 marks)

- 4 What is the sum of the largest two-digit number and the smallest four-digit number?

(3 marks)

- 5 Calculate:  
 $61 + 6 \times 0 - 12 + 16 - 8 =$

(3 marks)

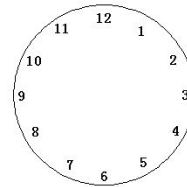


6 Calculate:  
 $85 + 34 - 25 \times 2 + 51 =$

(3 marks)

7 Draw a straight line within the surface of a clock to separate it into 2 portions. Summation of the numbers in one of the portion equal to 2 times the summation of the numbers in another portion. (There are more than one solutions, one just need to draw one of the lines)

(3 marks)

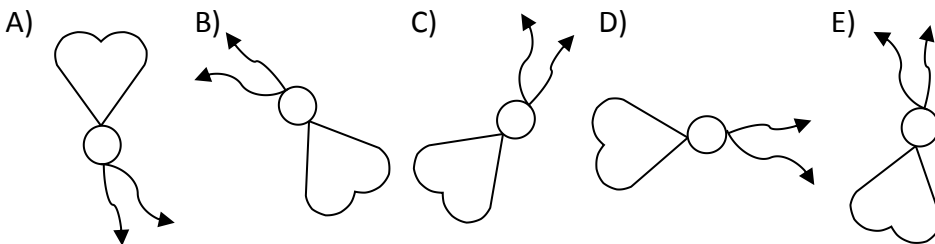


8  $24 \times 2 = \square \div 3$

Fill the number in the box to satisfied the equation.

(3 marks)

9 Which of the following object is different from the others?



(3 marks)

10 1<sup>st</sup> of July 2014 is Tuesday, what day is 30<sup>th</sup> July 2014?

(3 marks)

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11 1, 4, 9, A, 25, 36, B

What is the difference between A and B?

(4 marks)

12 I am reading a book. The product of the both open pages is 110. What is the sum of the both pages?

(4 marks)

13 124 pieces of cookies is packaged into boxes each containing 10 pieces of cookies. Each box is then sold for RM4. The remaining cookies are sold for RM0.50 each. What is the total selling price?

(4 marks)

14 When the order of the digits of 121 is reversed, the number remains the same. What is the largest number between 200 and 300 that remains the same when the order of the digits is reversed?

(4 marks)

15 In the magic square below, the sum of the 3 numbers in each of the 3 rows, 3 columns and 2 diagonals is the same. What is the product of **A** and **B**?

8		6
<b>B</b>	9	<b>A</b>
		10

(4 marks)

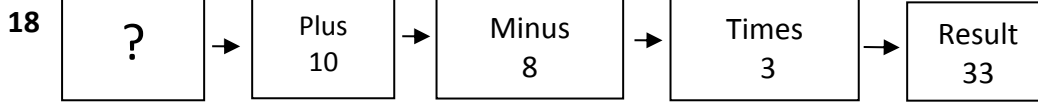


- 16 Mattew, Phoebe and Olivia share RM360 in the ratio 2 : 3 : 1. How much will Phoebe get?

(4 marks)

- 17 An electronic watch displays minutes as a 2-digit number. How many 2-digit numbers differ by 1?

(4 marks)



What number should be filled in the “?” box in order to obtain 33 as the result?

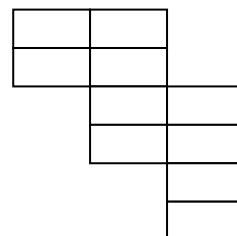
(4 marks)

- 19 In a class of 40 students, 12 take Swimming Class, 16 take Singing Class, and 5 take both Swimming Class and Singing Class. How many students in the class are not enrolled in either Swimming Class or Singing Class?

(4 marks)

- 20 Each small box is a rectangle. How many different rectangles can be traced?

(4 marks)



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- 21 Sabrina bought 2 cups of fruit tea and a slice of ice cream cake for RM9.50. She then bought 3 cups of fruit tea and 2 slices of ice cream cake for RM16.00. How much is a slice of ice cream cake?

(6 marks)

- 22 10 apples have the same mass as 1 watermelon and 2 pear. 1 pear has the same mass as 2 apples. How many apples have the mass of 1 watermelon?

(6 marks)

- 23 Twenty-four lamp posts are equally spaced along both sides of the Taft Bridge. Every lamp post is 2 meters apart. How long is the bridge?

(6 marks)

- 24  $\overline{ABC}$  represents a three-digit number. The product of its digits is 24. What is the smallest three-digit number that ABC can represent?

(6 marks)

- 25 There are Number cards "3", "4", "5" with 10 cards each, choose any 8 cards to sum up to 31, then what is the maximum number of cards "3" in the combination?

(6 marks)