



COMO-马来西亚数学邀请赛

MiMAS MALAYSIA MATHEMATICS INVITATIONAL

学生资料

英文姓名 Name		班级 Class	
学校名称 School Name			

5

2017

小学五年级  STANDARD 5

1 小时

5

INSTRUCTIONS AND INFORMATION

1. Do not open the booklet until told to do so by your teacher.
未获监考老师许可之前不可翻开此比赛试卷。
2. This question paper consists of 30 questions.
本试卷共有 30 题。
3. Diagrams are NOT drawn to scale. They are intended only as aids.
题目所提供之图形只是示意图，不一定精准。
4. Neither mathematical tables nor calculators may be used.
不准使用数学表或计算器。
5. Write your answers in the answer boxes on the **separate answer sheet** provided.
答案请另填写在所提供的作答卷的指定位置上。
6. Working may be shown in the space below each question.
算式可写在试卷的任何空格里。
7. **Marks are awarded for correct answers only.**
只有正确的答案才能得分。
8. The MiMAS reserves the right to re-examine students before deciding whether to grant official status to their score.
为确保竞赛之公平及公正，MiMAS 主办单位保留要求考生重测之权利。

1 - 10 题，每题 3 分。

1. 计算： $57 \times 15 - 2700 \div 36 = (\quad)$

Compute : $57 \times 15 - 2700 \div 36 = (\quad)$

- (A) 650 (B) 660 (C) 720 (D) 780

2. 下面哪一个数的因数个数最少？

Which of the following numbers has the least factors?

- (A) 24 (B) 36 (C) 45 (D) 60

3. 计算： $0.075 + 1.25 \times 2 - 0.048 = ?$

Compute : $0.075 + 1.25 \times 2 - 0.048 = ?$

- (A) 1.097 (B) 1.245 (C) 2.108 (D) 2.527

4. 计算： $2\frac{4}{5} + 4\frac{2}{3} + 1\frac{1}{2} = ?$

Compute : $2\frac{4}{5} + 4\frac{2}{3} + 1\frac{1}{2} = ?$

- (A) $8\frac{14}{15}$ (B) $8\frac{17}{30}$ (C) $8\frac{29}{30}$ (D) $8\frac{59}{60}$

5. $36 + 24 = 60$, $60 \times 5 = 300$, $18 - 12 = 6$, $300 \div 6 = 50$, 这四组算式组成的综合算式是 :
Which of the following is the combination of $36 + 24 = 60$, $60 \times 5 = 300$, $18 - 12 = 6$, $300 \div 6 = 50$, these four formulas :

- (A) $36 + 24 \times 5 \div 18 - 12$ (B) $(36 + 24 \times 5) \div 18 - 12$
(C) $(36 + 24) \times 5 \div (18 - 12)$ (D) $(36 + 24) \times 5 \div 18 - 12$

6. 三位数中，有几个 9 的倍数？
How many 3-digit numbers are multiples of 9?

- (A) 99 (B) 100 (C) 101 (D) 102

7. 甲数是 4.1523，乙数是 8.5241，丙数是 4.8563，甲、乙两数的和与丙数相差多少？
A is 4.1523, B is 8.5241, C is 4.8563. What is the difference between the sum of AB and C?

- (A) 5.9854 (B) 6.1189 (C) 7.8201 (D) 8.1146

8. 长方体盒子长 22 公分、宽 16 公分、高 8 公分，边长总和是多少公分？
Cuboid has 22 cm of length, 16 cm of width and 8 cm of height. What is the value of the sum of all edges, in cm?

- (A) 138 (B) 146 (C) 184 (D) 196

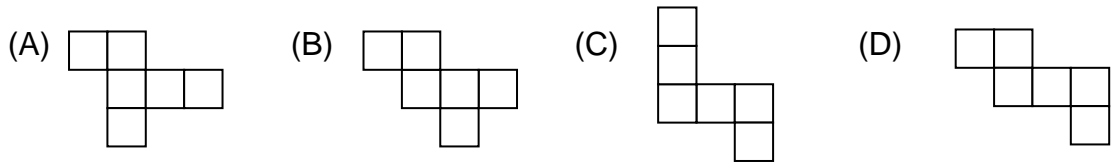
9. 一条绳子刚好可以围成一个长 25 公分、宽 20 公分的长方形，也刚好可以围成一个正三角形，这个正三角形每边长几公分？

A string can form a rectangle which has 25 cm length and 20 cm width. It also can form an equilateral triangle. What is the length of each side of these equilateral triangle in cm?

- (A) 25 公分 (B) 30 公分 (C) 50 公分 (D) 60 公分
25 cm 30 cm 50 cm 60 cm

10. 如下图，下列何者不可以做成完整的正方体？

Which of the following can NOT be folded to make a cube?



11 - 20 题，每题 4 分。

11. 有一个长方形的长为 16 公分，宽为 12 公分，若长方形的面积增加 96 平方公分，且宽保持不变，那么长需增加多少公分？

A rectangle has 16 cm of length and 12 cm of width. If the area of these rectangle increases 96 cm², the width remain unchanged, how long the length increased in cm?

- (A) 6 公分
6 cm
- (B) 7 公分
7 cm
- (C) 8 公分
8 cm
- (D) 9 公分
9 cm

12. 有一个长方体所有边长的和是 228 公分，长为 18 公分，宽比高多 9 公分，则长方体的体积为多少立方公分？

The sum of all side length of a cuboid is 228 cm. it has 18 cm length and the width is 9 cm longer than the height. What is the volume of the cuboid in cm³?

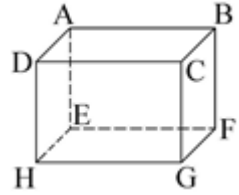
- (A) 6840
- (B) 6480
- (C) 6242
- (D) 5860

13. 甲三角形底 15 公分，高 20 公分，乙三角形底 40 公分，高 45 公分，问乙面积是甲面积的几倍？

Triangle A has 15 cm on base, 20 cm on height. Triangle B has 40 cm on base, 45 cm on height. Area B is how many times of Area A?

- (A) 5
- (B) 6
- (C) 8
- (D) 12

14. 图中，在同一平面上，与 \overline{HG} 互相平行的是下面哪一个？
Which of the following are parallel with the HG on the same surface?



- (A) \overline{CG} (B) \overline{AE} (C) \overline{EF} (D) \overline{EH}

15. 小茵看一本小说，开始每天看 45 页，8 天看完书的一半，以后每天多看 15 页，看完这本书共要用：
Yin reads a novel. She reads 45 pages every day. She finish half of the book on 8 days. After that she reads 15 pages more every day. How long does she need to finish the book?

- (A) 15 天 (B) 14 天 (C) 12 天 (D) 11 天
15 days 14 days 12 days 11 days

16. 某数原本要减 2.454，但是阿华误看成减 2.544，算出来的结果是 8.127，请问原本的正确答案是多少？
Henry mistook minus 2.454 as 2.544. The answer became 8.127. What is the correct answer?

- (A) 8.172 (B) 8.217 (C) 8.721 (D) 8.727

17. 有一个三位数，它的最大因子和最小因子相加是 973，这个三位数的十位与个位相加的和是多少？
The sum of the largest factor and the smallest factor of a 3-digit number is 973. What is the value of sum of the tens digit and the ones digit of these number?

- (A) 9 (B) 8 (C) 6 (D) 4

18. 一个梯形，上底 8 公分，下底比上底多 4 公分，高是下底的 2 倍，这个梯形的面积是多少平方公分？

A trapezoid, upper base is 8 cm, lower base is 4 cm longer than the upper base. Height is double of the lower base. What is the area of the trapezoid in cm^2 ?

- (A) 360 (B) 320 (C) 280 (D) 240 平方公分
 cm^2

19. 爷爷今年的年龄是阿波的 12 倍又多 8 岁，阿波今年 5 岁，10 年后爷爷比阿波多几岁？

The age of Grandfather is 12 times of Ben and 8 years old more. Ben is 5 years old. How old did grandfather older than Ben after 10 years?

- (A) 58 (B) 63 (C) 68 (D) 73

20. 四位数 $\overline{8a1b}$ 能同时被 5 和 6 整除，这样的四位数一共有几个？

Four digit number $\overline{8a1b}$ can divided by 5 and 6 without remained. How many these four digit number are there?

- (A) 1 (B) 2 (C) 3 (D) 4

21 - 30 题，每题 5 分。

21. 计算： $1\frac{1}{2} + 2\frac{1}{3} - 3\frac{1}{4} + 4\frac{1}{6} = ?$

Compute： $1\frac{1}{2} + 2\frac{1}{3} - 3\frac{1}{4} + 4\frac{1}{6} = ?$

22. 今天是星期二，从今天算第一天，第 100 天是星期几？

Today is Tuesday. Today is the 1st day. What day will it be the 100th day?

23. 小杰计算 $(3.9+\Delta)\times 15$ 时错算成 $3.9+\Delta\times 15$ ，他算出的结果与正确的得数相差多少？

Jack mistook $(3.9 + \Delta)\times 15$ as $3.9 + \Delta\times 15$. What is the difference between his answer and the correct answer?

24. 一个长方体的长为 8 公分，高为 20 公分，如果沿着水平方向把它横切成 4 个小长方体，表面积就增加了 240 平方公分，则原来长方体的体积是多少？

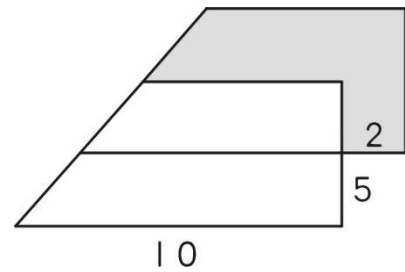
A cuboid has 8 cm length, 20 cm height. The surface area increases 240 cm² if cut it into 4 pieces small cuboid in horizontal direction. What is the volume of the original cuboid?

25. 计算 : $9.81 \times 0.1 + 0.5 \times 98.1 + 0.049 \times 981 = ?$

Compute : $9.81 \times 0.1 + 0.5 \times 98.1 + 0.049 \times 981 = ?$

26. 右图由两个完全相同的梯形重叠在一起，求图中灰色部分的面积是多少？(单位：公分)

The right figure made by overlapping two similar trapezoid. What is the area of the shaded part?
(In unit cm)?



27. 三个质数的和是 100，这三个质数的积最小是多少？

The sum of three prime numbers is 100. Find the least product of these three prime number.

28. 一笔竞赛奖金分为一等奖、二等奖、三等奖，每个一等奖奖金是每个二等奖的 2 倍，每个二等奖奖金是每个三等奖的 2 倍，如果颁一、二、三等奖各 2 人，那么每个一等奖奖金是 308 元，如果颁一等奖 1 人、二等奖 2 人、三等奖 3 人，那么一等奖的奖金是多少元？

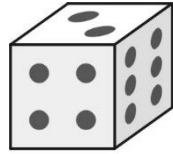
A competition prizes have first prize, second prize and third prize. The first prize is 2 times of the second prize. The second prize is 2 times of the third prize. If every prize has 2 winners, then the first prize is \$308. If first prize has 1 winner, second prize has 2 winners and third prize has 3 winners. How much the first prize winner get?

29. 在 300 公尺的环形跑道上，依依和涵涵同时同地起跑，如果同向而跑，2 分 30 秒后相遇；如果背向而跑，30 秒后相遇。如果依依跑得比涵涵快，那么涵涵每秒可以跑多少公尺？

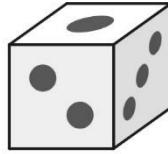
On 300m ring runway, Sunny and Kitty run at the same time, same place. If they run on same direction, they will meet after 2 minutes 30 seconds. If they run backwards, they will meet after 30 seconds. If Sunny is faster than Kitty, how many meter per second is the speed of Kitty?

30. 在一个骰子的 6 个面上分别是 1 点、2 点、3 点、4 点、5 点、6 点，然后按照下面的三种位置摆放。请问(A)、(B)、(C)底部的面，点数总和是多少？

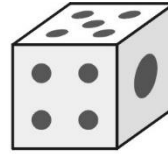
The dice has the number of points 1 to 6 on each face. Then the dice is placed according the following three pattern. What is the total points on the bottom surface of (A), (B) and (B)?



(A)



(B)



(C)

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本试卷共有 12 页 (包括本页)