



# EMC 数学检定考试比赛 2019

EDUKIDS MATHEMATIC CONTEST

## 三年级/ Standard 3

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比赛时间：1 小时

Time: 1 hour

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### 注意事项

### GENERAL INSTRUCTIONS

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. The top 20 questions are multiple choice questions, each with four options. The last 10 questions require answer or proof process.  
本试卷共有 30 题。最前 20 题为选择题，每题有四个选项。最后 10 题要写出答案或证明过程。
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. Marks are awarded for correct answers only.  
只有正确的答案才能得分。
7. We reserves the right to re-examine students' results before deciding whether to grant official status to their score.  
为确保竞赛之公平及公正，主办单位保留要求考生重测之权利。

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1-10 题，每题 3 分  
Question 1-10, 3 marks are given for each question

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1



图 1  
Diagram 1

图 1 显示 4 张数字卡，把这四张卡排列成一个小过 7532 的数目，那是

\_\_\_\_\_。  
Diagram 1 shows 4 digit cards. Arrange these digits to form a number smaller than 7532. The number will be \_\_\_\_\_.

- A 5709
- B 7590
- C 9057
- D 9705

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2 图 2 一个百格图。  
Diagram 2 is a 10 x 10 lattice figure.

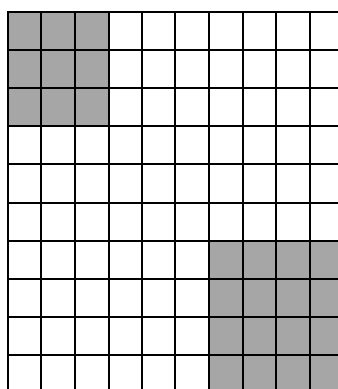


图 2  
Diagram 2

把图 2 的涂黑部分写成小数。

Write down the shaded region in Diagram 2 in the form of a decimal.

- A 2.5
- B 0.25
- C 0.16
- D 0.9

- 3 图 3 是一个等边三角形。  
Diagram 3 shows an equilateral triangle.

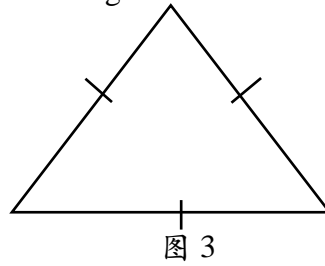


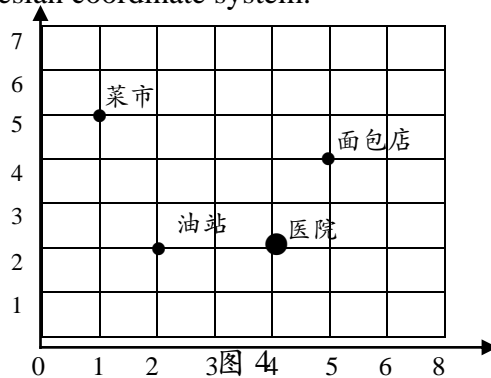
Diagram 3

这个三角形共有几条对称轴?

How many lines of symmetry does this triangle have?

- A 3  
B 4  
C 5  
D 6
- 
- 4 以下哪一个不是假分数?  
Which of the following is NOT an improper fraction?
- A  $\frac{7}{2}$   
B  $\frac{5}{3}$   
C  $\frac{4}{4}$   
D  $\frac{9}{10}$

- 5 图 4 显示一个笛卡尔坐标系。  
Diagram 4 shows a Cartesian coordinate system.



哪个坐标与地点的搭配是正确的?

Which coordinates match the location correctly?

- A (1, 2) 菜市 Market  
B (2, 1) 加油站 Petrol station  
C (4, 2) 医院 Hospital  
D (5, 5) 面包店 Bakery

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6.  $8\,099 + 900 + 90 =$

- A 8 999
- B 8 198
- C 9 089
- D 9 989

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7.  $6\,788 - ( \quad ) = 2\,010$

- A 4 778
- B 4 788
- C 4 798
- D 8 798

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8 图 5 显示一个饼分图。

Diagram 5 shows a pie chart.

The transportation method of Year 3 Green students to school

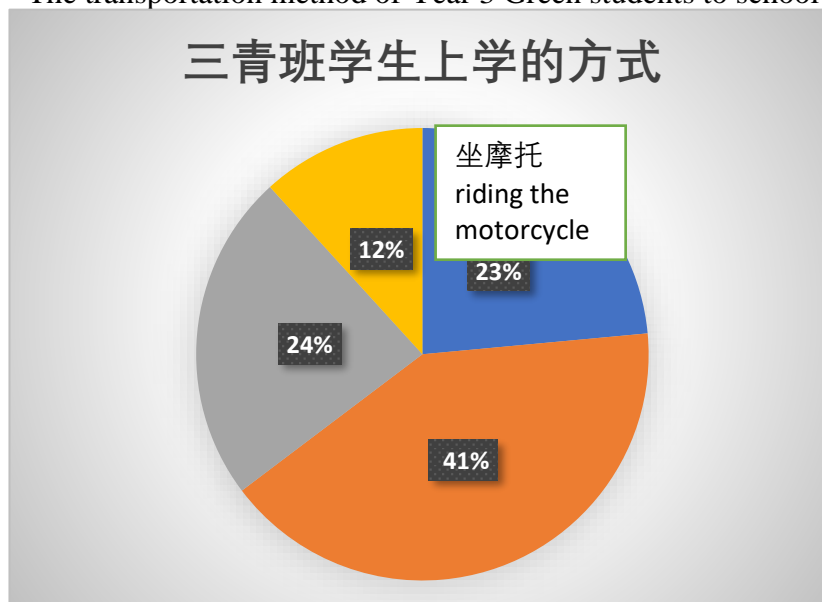


图 5

Diagram 5

根据图 5，骑脚踏车的学生百分比比坐摩托的少，坐汽车的学生百分比比走路的学生多，而坐摩托的学生百分比比走路的少。坐汽车的学生百分比是多少？  
According to Diagram 5, the percentage of students cycling to school is lower than the percentage of students riding the motorcycle while the percentage of students travelling by car is higher than the percentage of students walking to school. The percentage of students riding the motorcycle is lower than the percentage of students walking to school. What is the percentage of students travelling by car to school?

- A 41%
- B 24%
- C 23%
- D 12%

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9  $655 \times 8 = \boxed{\phantom{0000}}10$

- A 480  
 B 524  
 C 4 800  
 D 5 240

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10  $2772 \div 8$  的余数是多少?  
 What is the remainder of  $2772 \div 8$ ?

- A 12  
 B 8  
 C 6  
 D 4

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11-20 题, 每题 4 分

Question 11-20, 4 marks are given for each question

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- 11 小丽原有 0.75 升的橙汁, 她喝了 0.5 升后, 还剩多少升的橙汁?  
 Lily had 0.75 litres of orange juice at first. After she drank 0.5 litres, how many litres of orange juice does she have left?
- A 0.25 公升 litres  
 B 0.5 公升 litres  
 C 250 公升 litres  
 D 500 公升 litres

- 
- 12 图 6 显示钉起来的两支一样长的木条。  
 Diagram 6 shows two wooden bars with the same length being nailed together.

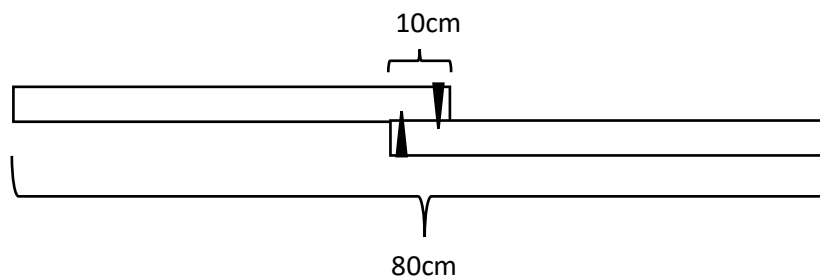


图 6

Diagram 6

钉在一起后的总长度是 80cm。每片木条的长度是多少 cm?

The total length of the wooden bars after being nailed together is 80 cm. What is the length of each wooden bar in cm?

- A 45cm  
 B 40cm  
 C 35cm  
 D 30cm
-

- 
- 13 图书馆里共有 5 340 本故事书和科学漫画。故事书的数量是科学漫画的 5 倍。科学漫画共有多少本?

A library has 5340 storybooks and science comics. The number of storybooks is 5 times the number of science comics. How many science comics are there altogether?

- A 4 094  
B 3 204  
C 1 068  
D 890

- 
- 14 一家水果店在第一个星期运进 53 kg 的苹果，第二个星期运进的 68 kg 的苹果，第三个星期则运进了 48 kg 的苹果。这家水果店共运进了多少 kg 的苹果?

A fruit store imported 53 kg of apples on the first week, 68 kg on the second week, and 48 kg on the third week. How many kg of apples did this fruit store import altogether?

- A 116 kg  
B 121 kg  
C 169 kg  
D 179 kg

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- 15 今年，美美 11 岁。她父亲 43 岁。多少年前美美的父亲年龄是她的年龄的 5 倍?

Mei Mei is 11 years old while her father is 43 years old this year. How many years ago was Mei Mei's father 5 times her age?

- A 2  
B 3  
C 4  
D 5

- 
- 16 小洪在阅读一本故事书。第一天，他看了全书的 $\frac{1}{6}$ ，第二天，他看了全书的 $\frac{1}{3}$ 。这两天，小洪共看了全书的几分之几?

Xiao Hong was reading a storybook. On the first day, he read  $\frac{1}{6}$  of the entire book. On the second day, he read  $\frac{1}{3}$  of the entire book. How many parts of the entire book did Xiao Hong read in these two days?

- A  $\frac{1}{2}$   
B  $\frac{1}{6}$   
C  $\frac{2}{3}$   
D  $\frac{5}{6}$
-

- 
- 17 妈妈给了文豪和明辉各 RM20 买参考书。文豪买完后，还剩下 RM5.60，明辉则剩下 RM6.50。谁买的参考书比较便宜?请说明。

Mother gave Wen Hao and Ming Hui RM 20 each to buy reference books. After Wen Hao bought the book, he has got RM 5.60 left while Ming Hui has RM 6.50 left. Whose reference book is cheaper? Please specify.

- A 文豪，因为他剩下的钱比明辉少  
Wen Hao because he has less money left than Ming Hao.
- B 明辉，因为他剩下的钱比文豪多。  
Ming Hui because he has more money left than Wen Hao.
- C 文豪，因为他剩下的钱比明辉多 RM0.90。  
Wen Hao because he has RM 0.90 more left than Ming Hui.
- D 明辉，因为他只用了 RM14.40。  
Ming Hui because he used up RM 14.40.

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- 18 小李、明华和丽丽共有 310 本故事书。小李的书比明华多 20 本，明华的书则比丽丽多 10 本。小李有几本书?

Xiao Li, Ming Hua, and Lily have 310 storybooks altogether. Xiao Li has 20 books more than Ming Hua while Ming Hua has 10 books more than Lily. How many books does Xiao Li have?

- A 120 本  
B 110 本  
C 100 本  
D 90 本

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- 19 阿明和阿发一起制作了一批零件。阿明一个小时制作 124 个，而阿发则在 1 个小时里制作了 136 个。他们合作做了 7 个小时，并多做了 70 个。他们原本打算制作多少个零件。

Both Ah Ming and Ah Fa produced a batch of spare parts. Ah Ming could produce 124 spare parts within an hour while Ah Fa could produce 136 spare parts in an hour. They worked together for 7 hours and managed to make 70 additional spare parts. How many spare parts did they intend to produce at first?

- A 1 750  
B 1 820  
C 1 850  
D 1 920

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- 20 陈先生和太太的月薪总额是 RM6 570.50，陈先生的薪水比陈太太多 RM410.50。陈太太的薪水是多少? Mr. Chen and his wife have a total monthly income of RM 6570.50. Mr. Chen's salary is RM 410.50 more than his wife's. What is Madam Chen's salary?

- A RM2874.75  
B RM3285.25  
C RM3080  
D RM6160
-

21-30 题, 每题 5 分

Question 21-30, 5 marks are given for each question

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21 把以下的分数化为百分比。

Convert the following fraction to a percentage.

$$\frac{3}{4}$$

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22 我是一个立体, 我的特征如下:

I am a three-dimensional shape. Below are my characteristics:

5 个平面。5 surfaces

5 个顶点。5 vertices

8 个边。8 edges

我是什么立体?

What am I?

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23 计算  $5\text{ m } 5\text{ cm} + 305\text{ cm} = (\quad)\text{ m} (\quad)\text{ cm}$

Calculate  $5\text{ m } 5\text{ cm} + 305\text{ cm} = (\quad)\text{ m} (\quad)\text{ cm}$

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- 24 表 1 显示一些纸币。  
Table shows several banknotes.



表 1  
Table 1

- 根据以上的币值，计算其总额。  
Based on the value of the currency, calculate the total amount.

- 
- 25 一条 9 米长的绳子平均切成 12 段，每段绳子长多少厘米？  
A rope with the length of 9 m is cut equally into 12 segments. What is the length of each segment in centimetres?

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- 26 黄老师正在阅读一本小说，如果每天看 28 页，需要 20 天才能看完。现在每天看 35 页，可以提前几天看完？  
Teacher Huang is reading a novel. If he reads 28 pages every day, it takes him 20 days to finish the novel. Now that he reads 35 pages every day, how many days in advance will it take for him to finish the novel?
-

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27 一场电影在下午 3 时 5 分开始。该部影片播放了 2 小时 35 分钟。计算电影结束的时刻。

A movie starts at 3:05 p.m. and it lasts for 2 hours and 35 minutes. What time will it end?

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28 在工作天，黄大叔一天需制作 6 个书橱。在 6 月份，他共制作了 138 个书橱。请问他有几天没去工作？

On a working day, Uncle Huang makes 6 bookcases per day. In June, he made 138 bookcases altogether. How many days has he been absent from work?

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29 有三桶不同质量的水，共是 42 公升。现在 A 桶要倒给 B 桶 3 公升，过后 B 桶再倒给 C 桶 2 公升，C 桶再倒给 A 桶 1 公升。现在这三桶水的体积一样多。这三桶水的原本体积各是多少公升？

There are three buckets of water of different weights with a total of 42 litres. A is going to pour 3 litres into B, then B is going to pour 2 litres into C, and C is going to pour 1 litre into A. Now these three buckets have the same volume. What is the original volume of each of the three buckets?

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30 一块松饼可以平分成 7 片，将 10 块松饼平分给 39 位小朋友，每人分得 2 片，请问够分吗？加以计算证明。

A pancake can be divided into 7 pieces. If 10 pancakes were to be split among 39 children, then each child will receive 2 pieces. Are the pancakes enough to share among the children? Calculate to justify your answer.

完

~TAMAT~

END