



# EMC 数学检定考试比赛 2019

EDUKIDS MATHEMATIC CONTEST

## 四年级/ Standard 4

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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。

1-10 题, 每题 3 分

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

- 1 2 个千、13 个百、5 个十和 16 个一合起来是多少?  
What is the value of 2 thousands, 13 hundreds, 5 tens, and 16 ones?

- A 2356  
B 2366  
C 3256  
D 3366

2



将以上数目卡排列成一个比 45602 大的数目, 那是\_\_\_\_\_。  
Arrange the digits above to a number greater than 45602. The number is \_\_\_\_\_.

- A 34820  
B 38042  
C 43802  
D 48023

3

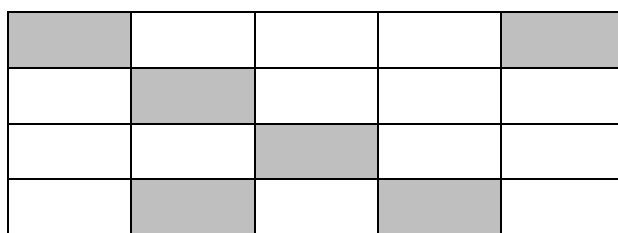


图 1

Diagram 1

哪一个分数代表图 1 的涂黑部分?

Which of the following fractions represents the shaded part in Diagram 1?

- A  $\frac{6}{14}$   
B  $\frac{6}{20}$   
C  $\frac{14}{6}$   
D  $\frac{14}{20}$

- 4 在 0 至 99 里，共有多少个 8?  
How many 8s are there between 0 and 99?

- A 10  
B 15  
C 20  
D 25

5

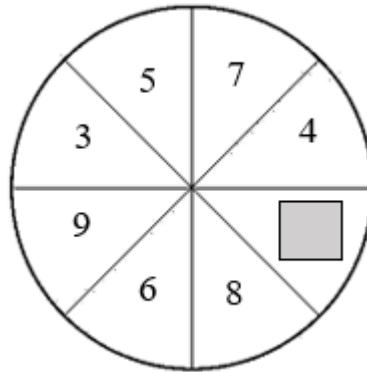


图 2  
Diagram 2

根据图 2 所示的规律，找出空格里的数字。  
According to the pattern shown in Diagram 2, find the number in the box.

- A 6  
B 10  
C 13  
D 18

- 6 以下哪一组的数目的万位近似值都是 30 000?  
Which of the following sets of numbers has a value nearest to 30 000?

- A 28 768, 30 981, 34 798  
B 24 798, 32 088, 34 003  
C 28 989, 34 964, 35 672  
D 20 777, 25 672, 34 897

7 图 3 显示一个坐标图。

Diagram 3 shows a coordinate graph.

5	⊖	μ	⊠	♥	☉
4	∞	√	♣	♠	—
3	●	⊙	≡	◇	◀
2	®	▲	×	♀	◎
1	€	☀	☆	◆	▽
	A	B	C	D	E

图 3

Diagram 3

坐标 (B,1) 和 (E,3) 的图案是\_\_\_\_\_。

The patterns with the coordinates of (B,1) and (E,3) are \_\_\_\_\_.

- A ☀、◀
- B ▽、▲
- C ◆、☀
- D ♀、⊙

8  $88 \times 9 = \boxed{\phantom{000}} \div 4$

在  $\boxed{\phantom{000}}$  内应填上什么数目?

Which number should be filled in the box?

- A 158
- B 198
- C 792
- D 3 168

9 图 4 显示一条数轴。

Diagram 4 shows a number line.

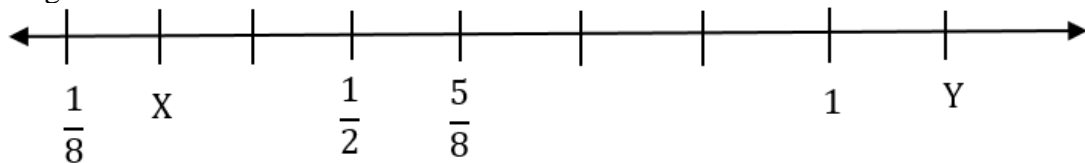


图 4

Diagram 4

计算 Calculate  $X + Y - \frac{1}{4}$

- A  $1\frac{1}{8}$
- B  $1\frac{1}{4}$
- C 1
- D  $\frac{7}{8}$

- 
- 10 莉莉和明华共有 62 本故事书。如果莉莉给了明华 12 本，两人的故事书数量就变成相同。明华原本的故事书数量少过 18 本对吗？请加以说明。  
Both Lily and Ming Hua have 62 storybooks. If Lily gives 12 books to Ming Hua, then both of them will have the same number of storybooks. Did Ming Hua have fewer than 18 storybooks at first? Please specify.
- A 错，因为明华原本有 31 本故事书  
No, because Ming Hua had 31 storybooks at first.
- B 对，因为明华原本有 17 本故事书  
Yes, because Ming Hua had 17 storybooks at first.
- C 错，因为明华原本有 19 本故事书  
No, because Ming Hua had 19 storybooks at first.
- D 对，因为明华原本有 16 本故事书  
Yes, because Ming Hua had 16 storybooks at first.
- 

## 11-20 题，每题 4 分

## Question 11-20, 4 marks for each question

- 
- 11 四红班共有 38 位学生。班主任打算把 120 张邮票送给学生。剩余的邮票会平分给正班长和副班长。正班长会得到多少张邮票？  
Class 4 Red has 38 students. The class teacher plans to give out 120 stamps to students and the remaining ones will be split between the monitor and assistant monitor. How many stamps will the monitor receive?
- A 3 张 pieces  
B 6 张 pieces  
C 9 张 pieces  
D 12 张 pieces
- 
- 12 在一个数学比赛项目，丽敏在第一回合得到 78.02 分。在第二回合所得到的分数是第一回合的 4 倍。找出丽敏在第二回合所得到的分数。  
In a Mathematics competition, Li Min's score on the first round was 78.02. On the second round, her score was 4 times more than the first round. Find the score obtained by Li Min on the second round.
- A 15.61  
B 16.51  
C 16.504  
D 312.08
-

- 
- 13 酒店管理处要在 25 层置放灭火器，每一层置放 20 个灭火器。计算管理层需要准备的灭火器数量。

The hotel management office wants to place fire extinguishers in all 25 floors of the hotel with each floor having 20 fire extinguishers. Calculate the number of fire extinguishers required by the management.

- A 360
- B 450
- C 500
- D 600

- 
- 14 一家咖啡馆正在做优惠。每购买 2 杯饮料，将免费一块蛋糕。优惠当天每个客人都购买 2 杯饮料。优惠当天咖啡馆共卖出了 226 杯饮料。计算咖啡馆所送出的蛋糕数量。

A café launches a promotion where a customer will be given a free cake with every 2 cups of beverages purchased. During the promotion, every customer bought 2 cups of beverages and a total of 226 cups of beverages were sold on that day. Calculate the number of free cakes given out by the café.

- A 113
- B 226
- C 339
- D 452

- 
- 15 爱莎用一条长 56cm 的铁丝制作了一个正八边形。每个边的长度是多少 mm?  
Elsa uses a wire with the length of 56 cm to make a regular octagon. What is the length of each side in mm?

- A 560 mm
  - B 150 mm
  - C 80 mm
  - D 70 mm
-

- 16 表 1 显示欢欢茶厂所生产的两种茶包数量。

Table 1 shows the quantity of the two types of teabags produced by Huanhuan tea factory.

茶包种类 Types of teabags	数量 (包) Quantity (bags)
茉莉花茶 Jasmine tea	3 500 包 bags
水果花茶 Fruit tea	4 200 包 bags

表 1

Table 1

现在要把两种茶包各装成 30 包一盒。茉莉花茶和水果花茶分别可以装成多少盒?

Now the two types of teabags are packed into a box of 30 each. How many boxes are there for jasmine tea and fruit tea respectively?

	茉莉花茶 (盒) Jasmine tea (boxes)	水果花茶 (盒) Fruit tea (boxes)
A	116	140
B	117	140
C	118	120
D	120	120

- 17 陈先生去中国公干，一共去 2 个星期 3 天。在中国的期间，其中 4 天用来游玩。回来休息 3 天后，又去星加坡公干 1 个星期 3 天。陈先生总共工作天少过 24 天，对吗？请说明。

Mr. Chen went to China for a business trip. He went there for 2 weeks and 3 days. During his time in China, he spent 4 days travelling for fun. Once he returned from his trip and rested for 3 days, he went to Singapore for another business trip for 1 week and 3 days. Are Mr. Chen's overall working days less than 24 days? Please specify.

- A 错，陈先生总共工作天少过 22 天。  
No, Mr. Chen's overall working days are less than 22 days.
- B 对，陈先生总共工作了 23 天。  
Yes, Mr. Chen's overall working days are 23 days.
- C 错，陈先生总共工作天多过 27 天。  
No, Mr. Chen's overall working days are more than 27 days.
- D 对，陈先生总共工作了 30 天。  
Yes, Mr. Chen's overall working days are 30 days.

- 18 市政局工人要在河岸两边从头到尾的种树。河的长度是 1.2 km。工人打算每隔 20 米种一棵树。工人一共需要准备多少棵的树?

The council workers plan to plant trees by the riverbank from the start to the end. The length of the river is 1.2 km. The workers intend to plant a tree every 20 m. How many trees do the workers need to prepare altogether?

- A 60  
B 61  
C 120  
D 122

- 19 海王号邮轮从马六甲航行到兰卡威需要 3 天 9 小时。海王号在兰卡威停留了 7 小时后，以相同的时间回到马六甲。计算海王号在整个行程用了多少天和小时？

Sea King cruise took 3 days and 9 hours to sail from Malacca to Langkawi. After stopping by at Langkawi for 7 hours, it used the same time to return to Malacca. How many days and hours did Sea King take to complete the journey?

- A 3 天 2 小时 3 days 2 hours
- B 4 天 16 小时 4 days 16 hours
- C 6 天 18 小时 6 days 18 hours
- D 7 天 1 小时 7 days 1 hour

- 20 甲乙两个罐子里共有 550 颗糖果，现在从甲罐子里取出 120 颗糖果后，乙罐子里的糖果是甲罐子里剩下糖果的 2 倍还少 50 颗。这两个罐子的糖果原本相差多少颗？

Both A and B containers have 550 sweets altogether. After 120 sweets are taken out from A, the number of sweets in B is 2 times but 50 sweets fewer than the number of sweets left in A. What is the difference in sweets between the two containers at first?

- A 10
- B 60
- C 160
- D 330

21-30 题，每题 5 分

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

- 21 涂黑图 5 格子表示分数五分之四。

Shade in Diagram 5 to show a fraction of four-fifths.



图 5

Diagram 5







- 22 这是一个算式。  
This is an equation.

$$60\,000 + \square + \square + 20 + 1 = 60\,4\square 1$$

$\square$  应填入什么数目才能完成以上的算式。

Which number needs to be filled in  $\square$  to make the equation above valid?

- 23 表 2 显示西蒂在五天里多卖出的椰浆饭数量。  
Table 2 shows the number of Nasi Lemak sold by Siti in five days.

星期一 Monday	
星期二 Tuesday	
星期三 Wednesday	
星期四 Thursday	
星期五 Friday	



 表示 15 包 represents 15 bags

表 2  
Table 2

西蒂在五天里总共卖出 330 包椰浆饭。  
Siti sold 330 packets of Nasi Lemak altogether in five days.  
星期四应该画上多少个  来作为表示？

How many  need to be drawn to represent Thursday's sale?

- 
- 24 图 5 显示两张小数卡。  
Diagram 5 shows two small number cards.



图 5  
Diagram 5

- A 卡与 B 卡的差乘以 4 是多少?  
What is the value when the difference between Card A and Card B is multiplied by 4?

- 
- 25 3 个盒子可以装 18 个蛋挞, 5 个相同的盒子可以装几个蛋挞?  
3 boxes can be used to place 18 egg tarts. How many egg tarts can be placed in 5 identical boxes?

- 
- 26 一个箱子里的苹果数量比梨子的数量多 16 个。 $\frac{1}{3}$  的梨子坏了, 剩下 12 个好的。苹果有多少个?  
The number of apples in a box is 16 more than the number of pears.  $\frac{1}{3}$  of the pears are rotten and only 12 pears are left. How many apples are there?

- 
- 27 在一家文具店里, 2 把尺和 3 枝铅笔的售价是 RM4.10。3 把尺和 2 枝铅笔的售价是 RM3.40。找出一枝铅笔的价格。  
A stationery shop sells 2 rulers and 3 pencils for RM 4.10 while 3 rulers and 2 pencils for RM 3.40. Find the price of a pencil.
-

- 
- 28 有 3kg 的橘子，美仪吃了  $\frac{13}{20}$  kg，美芳吃了  $1\frac{2}{5}$  kg，还剩多少 kg 的橘子？  
There are 3 kg of oranges. Mei Yi ate  $\frac{13}{20}$  kg of the oranges while Mei Fang ate  $1\frac{2}{5}$  kg of the oranges. How many kg of oranges are left?

- 
- 29 小蜗牛爬墙，第一天往上爬了 7 cm 5 mm，往下滑了一些，第二天又往上爬了 6 cm 4 mm，没有滑下来，两天共往上爬了 11 cm 6 mm，请问第一天滑下来多少 cm 多少 mm？  
A little snail climbed a wall. It climbed 7cm 5mm on the first day and slid down a little. On the second day, it climbed another 6cm 4mm and it did not slide down at all. It managed to climb 11 cm and 6mm on both days. How many cm and mm did it slide down on the first day?

- 
- 30 一场球赛共吸引了 13 789 名男观众和 13 678 名女观众。上半场的球赛结束后，共有 333 名男观众和 297 名女观众离开了。剩下的男观众比女观众少，对吗？计算加以证明。  
A football match attracted 13 789 male spectators and 13 678 female spectators. After the first half of the game, a total number of 333 male spectators and 297 female spectators left. Was the number of male spectators remained fewer than the number of female spectators? Calculate to justify your answer.
-

完

~TAMAT~

END