

# Math Kangaroo

## 三年易错题纵览

Commonly Missed Questions 2021-2023



3分题打卡

4分题打卡

5分题打卡

4分额外练习册

5分额外练习册

多轮模考

有问题联系MK小助手

# Judy

- Think MK 线上考试项目负责人
- MK 5分班授课老师
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MK Online Exams · MK 5-Pointer Program · Early Education Planning

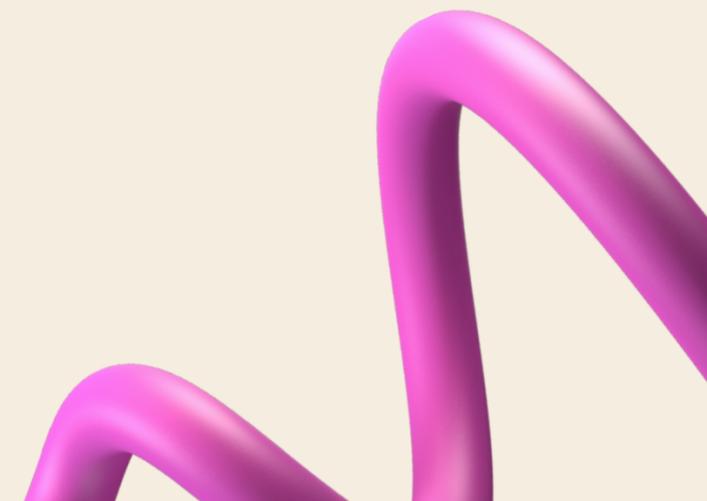


# What's your goal for MK?

**A** Top 3

**B** Top 20

**C** Just do it!



# Math Kangaroo Prep

1

知识点还  
没学完

Essential knowledge points are yet to be mastered

2

“刷”真题

Engaging in drilling past exam questions

3

查漏补缺

Rectifying mistakes and strengthening weaknesses

# 用好错题!

How to Achieve High Scores? Leverage Mistakes!

做得多不如做得准

做得准才能考得高

# Today's Agenda

**看**整体趋势

**Analyzing** trends in the past Math Kangaroo exams

**收**经典错题

**Curating** commonly missed questions

**讲**解决方法

**Providing** strategies to tackle these questions effectively

# MK整体趋势 OVERALL TREND

- G2相比G4获奖难度更大
- G1相比G2更容易出现弱势
- G4获奖更容易，但参与人数更少
- G3与G4的得分情况差距较小
- Compared to G4, it's harder to win awards in G2.
- G1 is more likely to exhibit weaknesses compared to G2.
- Winning awards in G4 is easier, but fewer participants.
- The score gap between G3 and G4 is smaller.

Level 1-2				Level 3-4			
参与人数	平均分	G1平均分	G2平均分	参与人数	平均分	G3平均分	G4平均分
262	60.61	59.4	62.8	215	67.67	67.4	69
219	65.64	59.9	70.3	198	74.39	74.3	75.6
309	63.67	61.5	66.6	267	56.72	55.8	56.5
381	68.78	63.4	73.9	279	69	67.2	71
256	58.91	56.5	61.2	267	62.03	60.7	64.3
475	67.53	64.8	73.2	482	60.75	59.3	64.3
232	55.86	52.3	56.5	167	64.6	63.4	72.6
204	54.78	48.5	60.5	190	64.96	63	68.6
214	62.93	56.9	66.2	214	71.01	72	71.7

# MK整体趋势 OVERALL TREND

- MK 获奖难度在低年级段更高

**75 = 3分题+4分题+一半5分题**

		CA				IL				MA				TX				NJ				NY			
		Lv 1	Lv 2	Lv 3	Lv 4	Lv 1	Lv 2	Lv 3	Lv 4	Lv 1	Lv 2	Lv 3	Lv 4	Lv 1	Lv 2	Lv 3	Lv 4	Lv 1	Lv 2	Lv 3	Lv 4	Lv 1	Lv 2	Lv 3	Lv 4
2021	得奖人数 (90分以上)	108	204	209	326	8	22	19	30	22	52	58	84	13	36	38	31	16	37	22	50	20	38	36	48
	州各年级参与人数	1004	1442	1663	1796	93	133	171	204	255	376	448	473	141	269	255	206	184	234	262	282	220	232	332	231
	90分以上获奖率	11%	14%	13%	18%	9%	17%	11%	15%	9%	14%	13%	18%	9%	13%	15%	15%	9%	16%	8%	18%	9%	16%	11%	21%
2022	得奖人数 (90分以上)	NA	262	324	506	NA	18	41	46	NA	61	58	90	NA	23	29	85	NA	28	42	71	NA	36	39	63
	州各年级参与人数	1192	1483	1873	1918	108	156	226	220	202	368	417	448	193	242	254	275	178	243	289	297	222	260	282	291
	90分以上获奖率	VALUE	18%	17%	26%	VALUE	12%	18%	21%	VALUE	17%	14%	20%	VALUE	10%	11%	31%	VALUE	12%	15%	24%	VALUE	14%	14%	22%
2023	得奖人数 (90分以上)	34	81	50	96	1	9	6	11	3	9	6	20	2	7	5	13	0	8	2	5	3	13	7	18
	州各年级参与人数	1722	2095	2444	2564	115	199	278	265	240	366	449	469	228	294	307	275	180	275	269	291	365	396	426	391
	90分以上获奖率	2%	4%	2%	4%	1%	5%	2%	4%	1%	2%	1%	4%	1%	2%	2%	5%	0%	3%	1%	2%	1%	3%	2%	5%

**MORE DIFFICULT TO GET A HIGH SCORE**

# MK整体趋势 OVERALL TREND

- **MK 获奖难度在低年级段更高**
- **阅读能力弱 weaker reading skills**
- **知识没有体系 lack of systematic knowledge**
- **学了就忘 (知识&习惯) frequent forgetfulness**

**EVEN TOUGHER IN LOWER GRADES**

# Commonly Missed Questions

# MK 经典错题

Same Wrong Answers

错误答案非常一致

读题一快，陷阱必栽

半懂不懂，生搬硬套

太复杂了，懒得想

Different Wrong Answers

各有各的错法

没学过，随便选

**Commonly Missed Questions**

# **MK 经典错题**

**Same Wrong Answers**

**错误答案非常一致**

**读题一快，陷阱必栽**

**Speedy Reading Leading to  
Traps**

**半懂不懂，生搬硬套**

**Partial Understanding Leading to  
Incorrect Application**

**太复杂了，懒得想**

**Complexity Leading to  
Reluctance to Think**

# MK错题--读题一快，陷阱必栽

Speedy Reading Leading to Traps

Lv 1-2

题号: 3

单选题

作答人次: 253

作答满分率: 26.88%

Linda invites her sixteen friends to have lunch together. Nine of her friends are boys. How many girls are there?

选项	选项内容	计数	占比 (作答人次)
A (答案)	8	68	26.88%
B	9	1	0.4%
C	10	3	1.19%
D	7	176	69.57%
E	6	5	1.98%
未作答	N/A	9	N/A

# MK错题--读题一快，陷阱必栽

Speedy Reading Leading to Traps

Lv 3-4

题号: 21

单选题

作答人次: 192

作答满分率: 58.85%

Bob writes the numbers from 1 to 100. How many digits does he write in total?

选项	选项内容	计数	占比 (作答人次)
A	100	45	23.44%
B	102	10	5.21%
C (答案)	192	113	58.85%
D	189	16	8.33%
E	180	8	4.17%
未作答	N/A	6	N/A

# MK错题--读题一快，陷阱必栽

Speedy Reading Leading to Traps

## 解决方案：

- 1、划关键词
- 2、问自己关键词隐藏的含义
- 3、一切落实到笔头

**Lv 1-2 这种错误相对更少，  
Lv 3-4 这种错误相对更多**

Solution:

1. Mark key words
2. Uncover the hidden meanings
3. Put everything down on paper

题号: 3 单选题 作答人次: 253 作答满分率: 26.88%

Linda invites her sixteen friends to have lunch together. Nine of her friends are boys. How many girls are there?

**Total** - Boys = Girls

# MK错题--半懂不懂，生搬硬套

## Partial Understanding Leading to Incorrect Application

题号: 20

单选题

作答人次: 201

作答满分率: 79.6%

The numbers

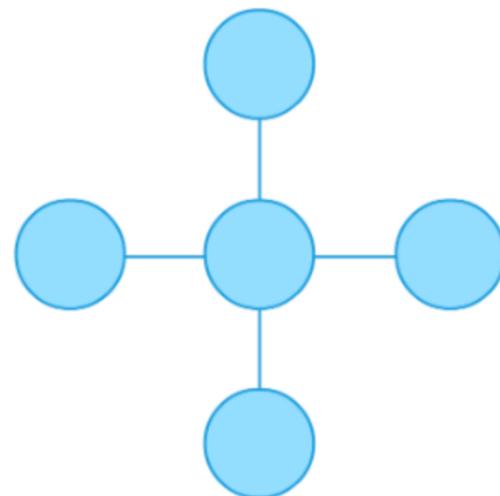
1, 2, 3, 6

, and

7

are written in the circles of the cross below, so that the sum of the numbers in each line is equal to 11

. Which number is written in the central circle?



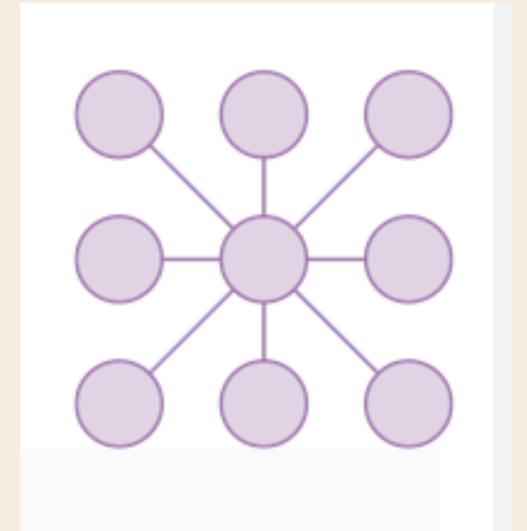
**1, 2, 3, 6, 7**

# MK错题--半懂不懂，生搬硬套

Partial Understanding Leading to Incorrect Application

## Lv 1-2

Fill the numbers 7, 9, 11, 13, 15, 17, 19, 21 and 23 into the circles below, so that the sum in each line is equal to 51. What is the number in the central circle?

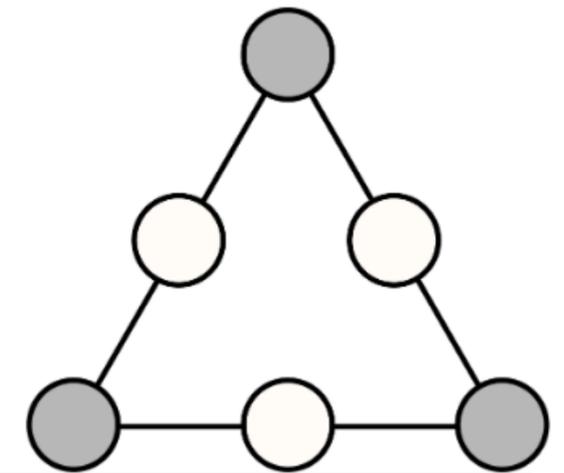


选项内容	计数	占比 (作答人次)
7	20	9.05%
13	16	7.24%
15	50	22.62%
21	32	14.48%
23	103	46.61%
N/A	41	N/A

# MK错题--半懂不懂，生搬硬套

Partial Understanding Leading to Incorrect Application

Fill the numbers 1-6 in the circles, so that the sum of three circles in each line is 12. What is the sum of numbers in the shaded circles?



选项	选项内容	计数	占比 (作答人次)
A	4	26	8.93%
B	6	43	14.78%
C	3	15	5.15%
D	10	46	15.81%
<b>E (答案)</b>	<b>15</b>	<b>161</b>	<b>55.33%</b>
未作答	N/A	18	N/A

# MK错题--半懂不懂，生搬硬套

Partial Understanding Leading to Incorrect Application

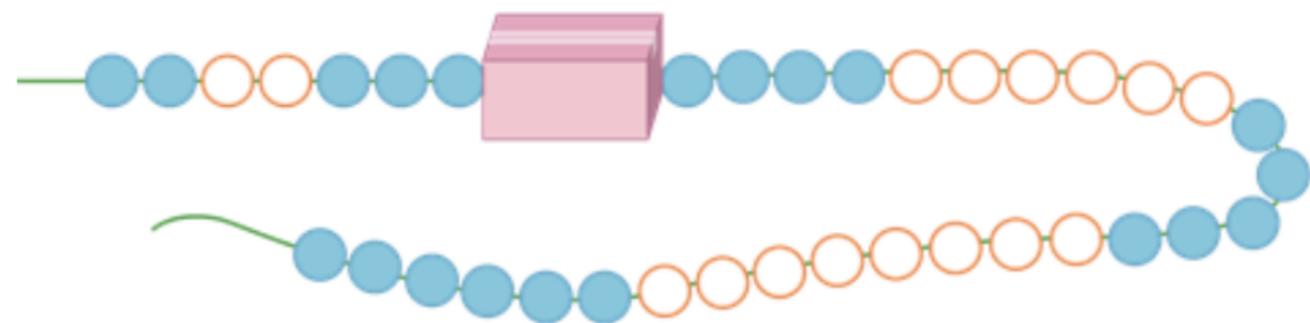
## Lv 1-2 其他常见“只知其一”类题目

找规律！ Finding Pattern

间隔问题！ Interval

题号: 12 单选题 作答人次: 211 作答满分率: 51.66%

According to the picture below, how many dots are hidden in the box?



选项	选项内容	计数	占比 (作答人次)
A	1	3	1.42%
B	5	22	10.43%
C	2	20	9.48%
D (答案)	4	109	51.66%
E	3	57	27.01%
未作答	N/A	8	N/A

# MK错题--半懂不懂，生搬硬套

Partial Understanding Leading to Incorrect Application

Lv 3-4

间隔问题 Interval

Candy lives on the third floor, and Lily lives in the same building but has to walk up three times as many stairs as Candy. There are no stairs to the entrance of the building. On which floor does Lily live?

选项	选项内容	计数	占比 (作答人次)
A	on the second floor	3	1.44%
B	on the third floor	6	2.87%
C	on the fourth floor	12	5.74%
D	on the sixth floor	100	47.85%
E (答案)	on the seventh floor	88	42.11%
未作答	N/A	6	N/A

# MK错题--半懂不懂，生搬硬套

Partial Understanding Leading to Incorrect Application

Lv 3-4

## 鸡兔同笼 Chicken and Rabbit

Zosia prepares 11 pieces of chocolate for her students. She cuts some pieces of the chocolate into 3 pieces. Now there are 23 pieces of chocolate in total. How many pieces of chocolate were cut?

选项	选项内容	计数	占比 (作答人次)
A	3	2	0.78%
B	4	71	27.52%
C	5	11	4.26%
D (答案)	6	164	63.57%
E	7	10	3.88%
未作答	N/A	9	N/A

# MK错题--半懂不懂，生搬硬套

Partial Understanding Leading to Incorrect Application

## 解决方案：

1、别心急，读完整

2、一定要记得检查 (Elimination)

把每个选项带入到题目中，按解题方法进行排除

Solution:

1. Don't be impatient, read thoroughly.

2. Always check your answers. Elimination: plugging each option into the question and eliminating the wrong answers.

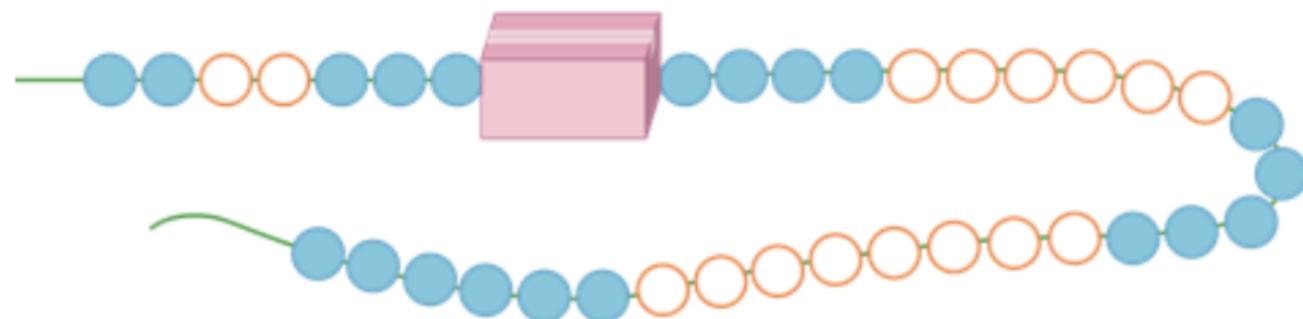
题号: 12

单选题

作答人次: 211

作答满分率: 51.66%

According to the picture below, how many dots are hidden in the box?



# MK错题--太复杂了，懒得想

Complexity Leading to Reluctance to Think

## Lv 1-2

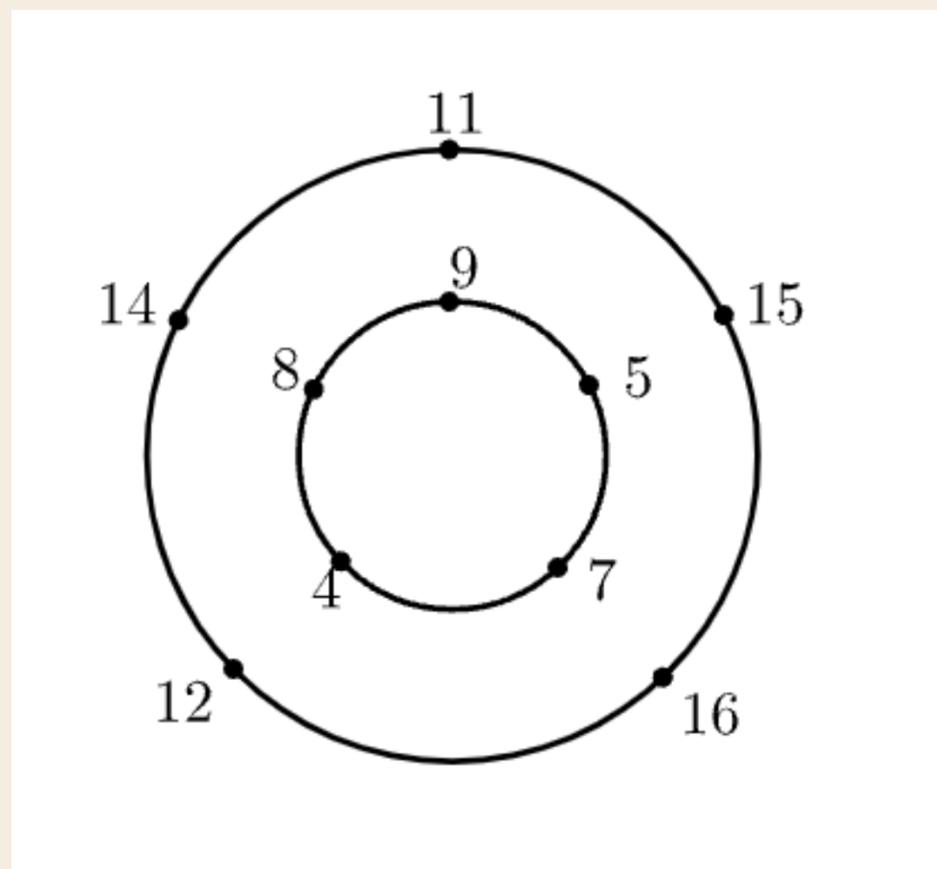
Nick has 83 books and Steven has 140 books. Starting tomorrow, Nick will buy 8 books and Steven will buy 5 books every day. How many days later will they have the same number of books?

选项	选项内容	计数	占比 (作答人次)
A	100	7	3.08%
B (答案)	19	97	42.73%
C	32	25	11.01%
D	20	12	5.29%
E	Never	86	37.89%
未作答	N/A	35	N/A

# MK错题--太复杂了，懒得想

Complexity Leading to Reluctance to Think

Lv 1-2



选项	选项内容	计数	占比 (作答人次)
A	8	18	6.21%
B	9	66	22.76%
C	5	33	11.38%
D	7	33	11.38%
E (答案)	4	140	48.28%
未作答	N/A	19	N/A

# MK错题--太复杂了，懒得想

Complexity Leading to Reluctance to Think

Lv 3-4 (步骤太多，无法持续思考)

The number 22 has the property that it is divisible by the digit in the ones place, because 22 divided by 2 is 11. The number 34 does not have this property. how many numbers greater than 52 and smaller than 63 have this property?

**TOO  
MANY  
STEPS**

选项	选项内容	计数	占比 (作答人次)
A	5	19	9.31%
B	6	15	7.35%
C	4	51	25%
D (答案)	3	80	39.22%
E	2	39	19.12%
未作答	N/A	11	N/A

# MK错题--太复杂了，懒得想

Complexity Leading to Reluctance to Think

## 解决方案：

Solution:

1. Translate the text into numerical models.
2. Don't give up, try a few approaches first!

- 1、能够有将文字转化成“数字模型”的能力
- 2、不要放弃，先试几个！

Nick has 83 books and Steven has 140 books. Starting tomorrow, Nick will buy 8 books and Steven will buy 5 books every day. How many days later will they have the same number of books?

Nick	Steven	Diff
83	140	57
91	145	54
99	150	51

**Commonly Missed Questions**

# **MK 经典错题**

**Different Wrong Answers  
各有各的错法**

**没学过，随便选**

**Lack of Mastery in  
Knowledge Concepts**

# MK错题--知识点没掌握

Lack of Mastery in Knowledge Concepts

## Lv 1-2 题目太绕+知识点多

In two days, Jason walked 41 kilometers. On the second day, he walked 4 kilometers less than 4 times as far as he did on the first day. How many kilometers did he walk on the second day?

选项	选项内容	计数	占比 (作答人次)
A	26	42	19.35%
B	28	22	10.14%
C	30	33	15.21%
D (答案)	32	89	41.01%
E	34	31	14.29%
未作答	N/A	45	N/A



# MK错题--知识点没掌握

Lack of Mastery in Knowledge Concepts

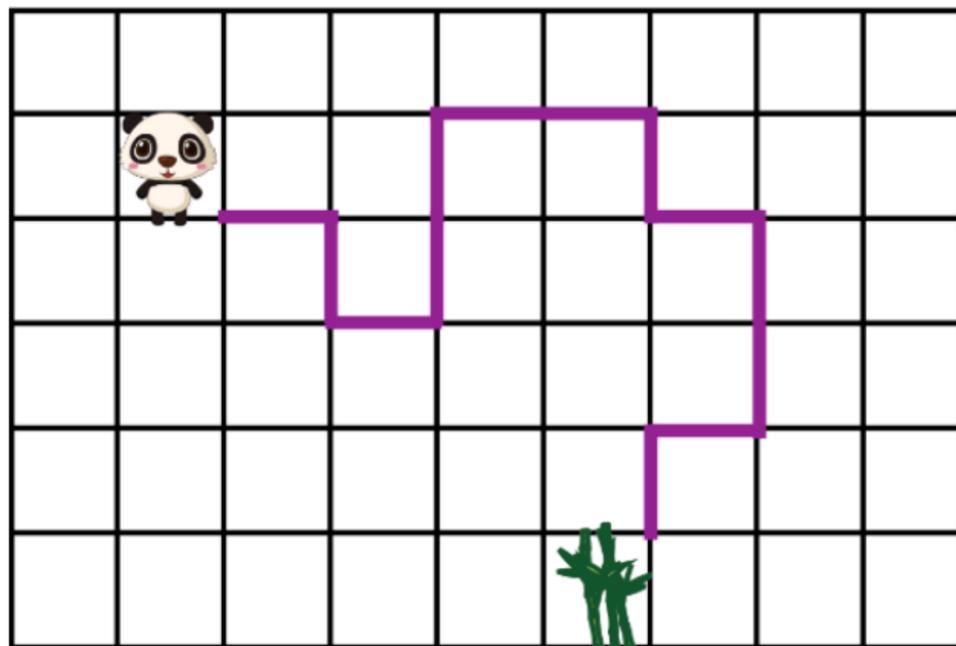
## Lv 1-2 常见难点

空间想象

排队问题

间隔问题

Patrick the Panda followed the route and got the bamb



### Common Challenges in Level 1-2:

- Spatial
- Queueing
- Interval

# MK错题--知识点没掌握

Lack of Mastery in Knowledge Concepts

## Lv 3-4 常见难点

折纸问题

Cube 对立面

立体图形想象

逻辑推理

相斥问题

### Common Challenge in Level 3-4

- Spatial: Folding Paper, Opposite Faces of a Cube, 3D Shapes
- Logical: Logical Reasoning, Repulsion

# MK错题--知识点没掌握

Lack of Mastery in Knowledge Concepts

## 解决方案:

### 没有捷径, 学习解题方法

Solution: there's no shortcut!



4-pointer and  
5-pointer  
classes

Extra  
practice  
sessions

MK  
mock  
exams



**MK小助手**

# MK经典错题

# Commonly Missed Questions

## 错误答案非常一致 Same Wrong Answers

**读题一快，陷阱必栽**

Speedy reading leading to traps

**半懂不懂，生搬硬套**

Partial understanding leading to  
incorrect application

**太复杂了，懒得想**

Complexity leading to  
reluctance to think

**能否精准找到问题？**

Can you accurately identify the problem?

**能否灵活解决问题？**

Can you flexibly solve problems?

**能否创造解决方法？**

Are you up for challenges?  
Can you create solutions?

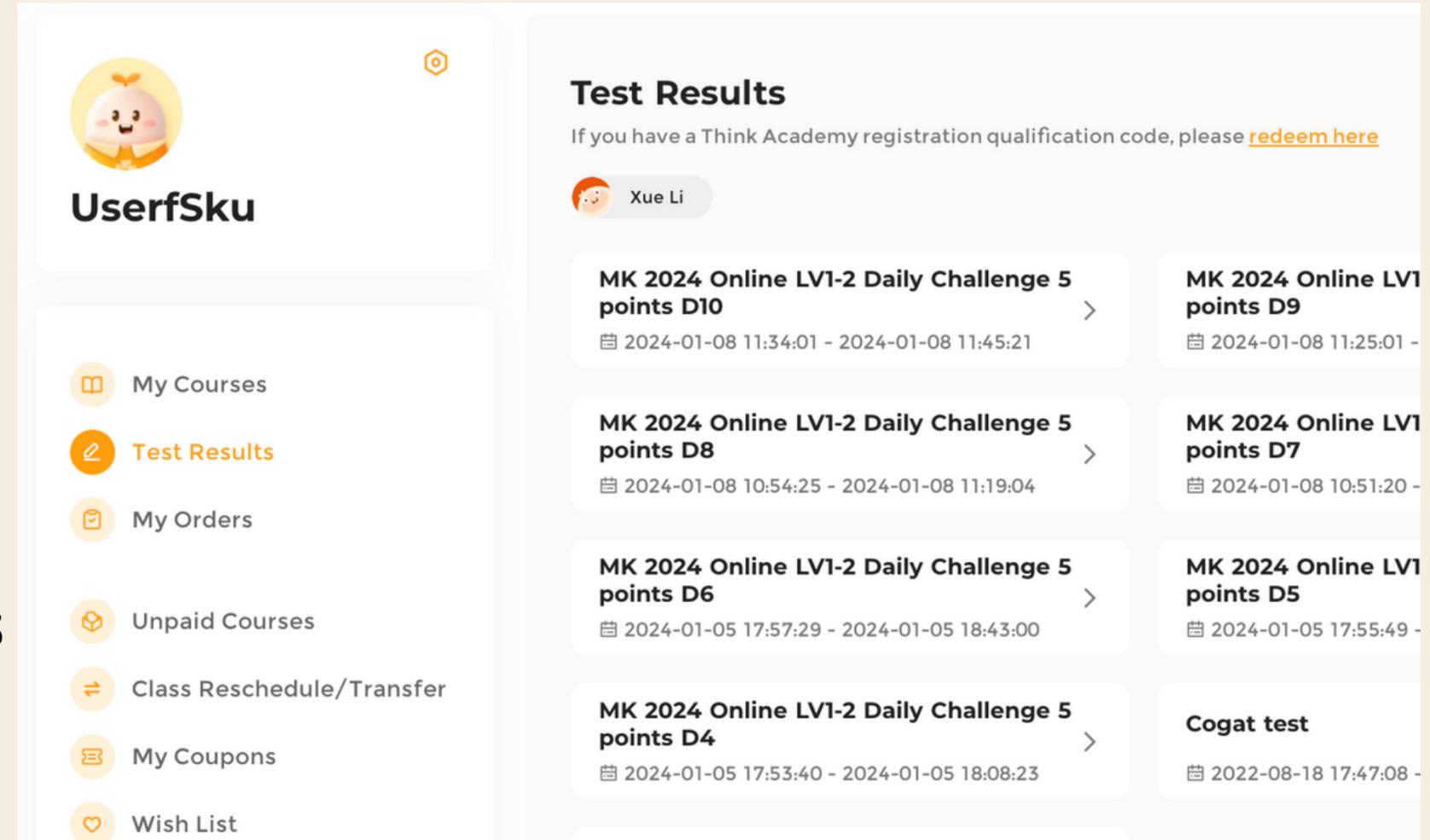
**把错题做对，最能让孩子有成就感！ BUILD CONFIDENCE**

# 如何通过错题，让孩子进步？

How to Improve by Learning from Mistakes?

**step 1 整理孩子以往错题**  
**Organize Past Missed Questions**

**Think官网--My account --Test Results**



# 如何通过错题，让孩子进步？

How to Improve by Learning from Mistakes?

**step 1 整理孩子以往错题**

Organize Past Missed Questions

**step 2 对于错题进行分类（不会/读题/半懂不懂）**

Categorize Missed Questions

**step 3 针对分类进行反思和总结**

Reflect and Summarize Based on Categories

**step 4 重做错题，写步骤！！！！**

Redo Missed Questions and Outline Steps

# 如何通过错题，让孩子进步？

How to Improve by Learning from Mistakes?

错题分类

方法总结

综合检测



A collection of missed questions

Mar. 9-10: MK coaches to accompany mock exams



MK小助手

3.9-10 MK教练陪考  
重难点同步讲解

- 如何通过关键词迅速锁定方法？
- 如何进行检查？
- 如何合理分配时间？

