

2014

职称英语通关9套题系列丛书

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全国职称英语考试命题研究组 / 组编

郭英剑 / 丛书主编

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to Pass 2014 English Test for

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最新5年真题,深度剖析4套仿真预测,提前入场



密训班

高清视频网络课程



2014

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职称英语

通关9套题 理工类A级



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《2014 职称英语通关 9 套颢 (理工类 A 级)》为 5 + 4 的体例,一方面深度剖析 2009 ~ 2013 年五年的真题,体例按照【答案】、【题干】、【解析】、【考点延伸】四个部分来设计。【答案】 明确标出正确选项:【题干】对题目和选项进行了完整的中文翻译,以便考生做直题就能复习 大量词汇,省去查词典之苦;【解析】对本题正确答案进行了全面完整的分析;【考点延伸】 则对该题体现的考点进行了延展,以便达到举一反三的目的。另一方面设置4套高度仿真的预 测试题,解析部分极具深度和高度,使考生在历年真题的基础上,有机会将自己所学所知讲行 强化训练,提前体验亲临考场的感觉。

本书目的在于"从历年真题学习考点,做历年真题以通过考试",用目前市面其他图书没 有使用的方式来剖析真题,将真题价值最大化,帮助考生用最少的时间和最小的投入,成功通 过2014年职称英语理工类 A 级考试, 顺利晋升职称。

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但凡参加职称英语考试的考生,大都工作忙、时间紧、压力大,晋升职称的刚性需求 很高。在职业生涯发展的道路上,广大考生平时工作接触英语不多,加之英语基础比较薄 弱,职称评定时英语这一关总是如鲠在喉,但又决不能轻言放弃。是的,谁不想一次性通 过呢?

在这种情况下,考生如何能在有限的时间、精力、金钱投入下,成功通过 A、B、C 级的考试呢?经过为上万人次的成功培训后,我们发现,全面深入地掌握历年真题是成功的关键。目前市面上各种"历年真题及模拟题"如汗牛充栋,但一览其模式之后,却发现真题的价值在这种模式下根本无法发挥其指导性的作用。简单总结起来,真题有以下特点: 1. 囊括了所有考点; 2. 涉猎了全部题型; 3. 有一定程度的重复。

因此,我们提出一个口号:从历年真题学习考点,做历年真题以通过考试!为了让历年真题充分发挥其应有的价值,让考生朋友们用最少的时间、最小的投入赢得最大的回报率,我们特意编写了这套《2014 职称英语通关9套题》,针对不同类别和级别,共9册:《2014 职称英语通关9套题(综合类A级)》、《2014 职称英语通关9套题(综合类B级)》、《2014 职称英语通关9套题(综合类B级)》、《2014 职称英语通关9套题(理工类A级)》、《2014 职称英语通关9套题(理工类A级)》、《2014 职称英语通关9套题(理工类C级)》、《2014 职称英语通关9套题(理工类C级)》、《2014 职称英语通关9套题(理工类C级)》、《2014 职称英语通关9套题(卫生类B级)》、《2014 职称英语通关9套题(卫生类B级)》、《2014 职称英语通关9套题(卫生类B级)》、《2016 职称英语通关9套题(卫生类B级)》。

本丛书透彻分析了 2009—2013 年真题,将每个考题体现的考点和隐藏的考点如数展现,引导考生朋友们体验真题的同时,更好地把握 2014 年考试命题趋势和特点。同时为了让考生在通过真题学到考点和技巧后进行强化练习,本丛书组编了 4 套高度仿真模拟题,并对模拟题进行深度解析,让考生深刻把握命题命脉。

本丛书有以下特点:

1. 名牌机构策划, 名师主笔

本丛书由职业资格考试考前培训领军机构优路教育策划,博士生导师、享受国务院政府特殊津贴专家郭英剑教授领衔,多位一线培训名师参与编写。他们深谙命题规律,熟知在职考生特点,强调方法技巧,侧重学习方式与效果的匹配。

2. 最新五年真题,深度剖析

本丛书对 2009—2013 年真题进行了深度剖析,【答案】明确标出正确选项;【题干】对题目和选项进行了完整的中文翻译,以便考生做真题时就能复习大量词汇,省去查词典之苦;【解析】对本题正确答案进行了深度分析;【考点延伸】则对该题体现的考点进行了延展,以便达到举一反三的目的。"从历年真题出发,找到 2014 考题"的目的在潜移默

化中就能实现。

3. 四套仿真预测,提前入场

本丛书提供了四套高度仿真的模拟试题,解析部分具深度和高度,使考生在历年真题的基础上,有机会将自己所学所知进行强化训练,提前体验亲临考场的感觉。

4. 多种附赠服务,强大助力

本丛书配有超值赠送服务,由优路教育(www.niceloo.com)提供专业答疑及在线技术支持。每本书均附赠"优路教育2014年职称英语真题冲刺密训班"(16学时,价值520元)的高清视频网络课程。2013年11月1日以后,刮开封面的账号和密码,登陆www.niceloo.com,根据"图书赠送课程学习流程"进行学习,从而为考生营造"学真题+做真题+讲真题"的氛围。

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本套丛书体例设置脉络清晰,内容撰写针对性强,考点剖析深刻,技巧总结到位,加之附赠超值课程和服务,是广大职称英语考生必选的复习资料。真诚希望本套丛书能助大家一臂之力,顺利通过考试!

编 者 2013年9月

写在前面的话:关于职称英语考试的那些事

职称英语考试分为三个类别(综合、理工、卫生),每个类别又分为三个级别,而且 重点考查的是应试者阅读英文专业文献的能力,因而,职称英语考试对不同级别的应试者 提出了不同的要求:

申报 A 级的应试者要求应识别 6 000 个左右的单词和一定数量的短语,并要求在考试规定的时间内完成约 3 000 词的阅读任务。A 级考试中,每篇文章的长度为 400 词左右,要求应试者能正确理解所读材料的内容。

申报 B 级的应试者要求应识别 5 000 个左右的单词和一定数量的短语,并要求在考试规定的时间内完成约 2 600 词的阅读任务。B 级考试中,每篇文章的长度为 350 词左右,要求应试者能正确理解所读材料的内容。

申报 C 级的应试者要求应识别 4 000 个左右的单词和一定数量的短语,并要求在考试规定的时间内完成约 2 200 词的阅读任务。C 级考试中,每篇文章的长度为 300 词左右,要求应试者能正确理解所读材料的内容。

虽然对词汇量要求有所不同,但所有类别和级别的考试题型都是一样的,共分六大题型:词汇选项、阅读判断、概括大意与完成句子、阅读理解、补全短文、完形填空,分值 具体分布如下:

题型	单位分值	题量	该部分总分
词汇选项	1分	15	15 分
阅读判断	1分	7	7分
概括大意与完成句子	1分	8	8分
阅读理解	3 分	15	45 分
补全短文	2分	5 -	10 分
完形填空	1分	15	15 分
总分			100 分

由上表可见,职称英语考试题型丰富,考查全面。其中分值较大的有词汇选项、阅读 理解和完形填空。阅读判断、概括大意与完成句子、补全短文尽管分值不高,但比起传统 题型来,需要一定时间的认知和适应。然而,只要是考试,就一定有命题的规律和应对的 技巧。下面,我们就分题型来讲解各个部分的答题技巧。

● 词汇选项:活用词典,快准狠巧

词汇选项题一共15题,每题要求在四个词汇中选出一个最接近给出句子中的划横线单词的选项(近义词或同义词);由于可以带词典进入考场,这部分题目是"送分题",

所以,必须保证这部分拿到满分。做这一部分题最好做到"又准又快",一般掌握在 20 分钟以内,在备考时如果花的时间太多,这就说明对这部分题目的做题思路和技巧还没有一个全面的了解和掌握。当然,做这 15 题,尽管"快而不准"是很笨的做法,如果稳拿 15 分,就是多花点时间也是很值得的。

职称英语考试的词汇选项题目基本是考查同义词或近义词替换,但是有时候划线词与正确选项并非同义词或者近义词,而是基本含义相同、同时能使句子通顺的单词替换,可参考历年真题。

同时,该部分在历年的考试中有重复考查的特征,建议考生要注意历年词汇选项真题的复习(详见本书附录部分——历年真题词汇选项考查)。

🦠 阅读判断:正误好辩, C 项是宝

职称英语的阅读判断题目的关键是定位到原文的相关句子,从而才能对题干进行正确 (Right)、错误(Wrong)、未提及(Not Mentioned)的判断。定位原句子主要是利用题干的关键词,如大写字母的单词、数字、时间、名词、动词、形容词和短语等。

此外,根据历年真题分析,阅读判断题目每年有 1~2 道题目为 C (未提及),这一点要引起考生的注意。"正确"题干一般很好分辨,"错误"和"未提及"不太好分辨。"错误"的情况是题干的信息,原文有所提及,但两者内容是不吻合的。"未提及"则是题干的内容在原文根本没出现。拿不准时多选 C。

同时,题目的顺序与原文的段落顺序一般保持一致,所以考生在定位原句时根据题目顺序依次往下找即可。

● 概括大意与完成句子: 主题在首, 定位为先

段落的大意可通过寻找段落的主题句来获得。段落的主题句一般是段落的首句或尾句,如23题和24题;有时候是中间的句子(特别是有表示转折意思的连接词,如but、however,nevertheless,although,though等);很少的情况下需要根据段落意思总结其段落大意,这时候要注意段落的高频词汇,高频词汇一般与段落的大意有关。

完成句子的关键则是首先在原文中定位到相关的原句,定位的方法也是利用题干的关键词,诸如大写字母的单词、数字、时间、名词、动词、形容词和短语等。此外,如果题干不容易定位,可以定位选项,看哪个选项对应的原句与题干一致。

● 阅读理解: 既快又准地"找",精心细致地"比"

阅读理解题目常考的题型主要有细节题、词汇题、主旨题、态度题、例证题等。

做阅读理解的关键在于"找",即用关键词定位到原文;"比",即将选项与定位的信息进行比较。

细节题是考试中最常见的题型,占据总分值的80%左右。解细节题的关键点在于上一段中讲到的用关键词回到原文定位,将定位好的细节信息与选项进行——比对,重合度高的选项即为正确答案。正确选项往往会对原文信息进行改写,常见方式为同义替换(词汇层面)和句式改写(句法层面);错误选项也有明显的特征:带有绝对词(always、absolutely、

only等)、偷换概念、文不对题(选项内容正确,但与该题题干没有关系)等。

主旨题分为段落主旨和篇章主旨,段落的主旨一般是看段落的首尾句,而篇章的主旨则是看所有段落的首尾句,并结合篇章的题目。词汇题可以通过查词典的方式解决。

推断题是阅读理解中比较难的题目类型,需要在读懂文章的基础上进行推断,但因为时间所限,通读全篇的可能性不大,可以利用每段的首尾句来确定每段的大意,然后各段大意联系在一起就掌握全文大意,可以据此进行推断;或者也可以结合其他四道题目的理解进行推断。态度题则需要利用所使用词汇的褒贬色彩进行判断。例证题则需要关注例子前后的表示论点或观点的句子。

● 补全短文: 转承启合, 线索为先

这类题要求根据给定短文(原文)的意思,在6个选项句子(陈述句)中分别选出5个符合语法知识、逻辑结构和前后内容意思衔接的选项,补充到原文划线的填充处,使原文成为一篇意思完整、前后连贯的短文,所以这类题实际上是段落填充题。这类题本意是要考查较高的阅读能力、基础知识(语法、词汇等)和综合逻辑思维推理能力,其难度较大,是最令人头痛的题型,各选项环环相扣,选错了一个至少错两个甚至更多,所以填错一个选项,就意味着至少丢掉了4分。

不过,容易丢分的题,也是最容易得分的题,每选对一个,就意味着其他选项选择的成功率大大提高,何况只有1个干扰项,排除起来更容易。所以,如果做得好,它比"阅读理解"更容易拿分。做题时要注意:如果基础较好,可以快速浏览一遍原文,但不必精读;千万要注意选项的中心词和句子第一个词、填充处前后句子的大概意思和第一个和最后一个词;做每个填充处要认真阅读其前后段或句子,但不必阅读其他段落;要注意代词的线索功能,比如空格后有 it 或是 this,那么空格处一定有一个单数物体或事件,同时还要关注上下文语义的起承转合等逻辑关系词,比如转折代表要寻找反义词,原因要寻找合理的解释等等;确定了所有答案后,划去干扰项,把各选项对号入座,进行检查和印证。做题时千万要把已确定的选项划去,以便利用排除法解决问题。

● 完形填空:上下求索,瞻前顾后

完形填空是传统题型,一篇文章中 15 个空白对应着 15 个选项,要求填入实词(动词、名词和形容词等)的约占 70%,其他为虚词(介词、副词等)的约占 30%。要填的词几乎涉及各个词类,动词含有不同的时态、语态和语气。

做题步骤可以分为以下三步: (1) 通读全文。首先要阅读整篇文章,理解全文内容。同时对全文的语言表达方式,比如文章用的时态、语态、文章的措辞与口气等方面得出大致印象; (2) 逻辑判断。在阅读全篇的基础上,开始从头判断每个空所缺的词的语言形式,如词类、时态、语态;并判断该词应具有的符合文章上下文的词意; (3) 理解选择。从给出的4个选项中,选出在语法与词意上均与原文相符合的一个。

做完形填空要特别注意固定搭配和习惯用语,比如看见空格前有 so,那么就应该下意识地到选项中找 that;看见空格前有 as well,就应该下意识地寻找 as。同时要注意寻找上

下文中的线索词,即"上下求索,瞻前顾后"。

以上的技巧和步骤,我们可以到真题中得到足够的训练和强化。换句话讲,鉴于职称 英语命题重复率大的特征,只要将真题研究透彻了,将延伸的考点也掌握了,那么通过也 就不是难题了。

> 编 者 2013年9月



11	4	片
M	77	17

写在前面的话:关于职称英语考试的那些事

		Þ	2013	年耳	只称	英语	等级	考证	【真是	页 ((理	工类	A	级)						••••			1
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2013 年职称英语等级考试真题(理工类 A 级)

第1部分: 词汇选项 (第1~15 题, 每题1分, 共15 分)

下面每个句子中均有1个词或短语划有下划线,请为每处划线部分确定1个意义最为接近的选项。

	接近的选项。						
1.	Respect for life is a	ca	rdinal principle o	f th	e law.		
	A. fundamental	В.	moral	C.	regular	D.	hard
2.	The proposal was	end	orsed by the maj	ority	of members.		
	A. rejected	В.	approved	C.	submitted	D.	considered
3.	Many experts rema	in s	keptical about hi	s cl	aims.		
	A. untouched	В.	certain	C.	silent	D.	doubtful
4.	This species has no	earl	y <u>died out</u> becau	ise i	its habitat is bein	g d	estroyed.
	A. turned dead	В.	passed by	C.	carried away	D.	become extinct
5.	The methods of con	mm	unication used di	urin	g the war were p	rimi	tive.
	A. reliable	В.	effective	C.	simple	D.	alternative
6.	Three world-class t	enn	is players came	to c	ontend for this ti	tle.	
	A. argue	В.	claim	C.	wish	D.	compete
7.	Come out, or I'll bu	<u>ust</u>	the door down.				
	A. shut	В.	beat	C.	set	D.	break
8.	The rules are too \underline{r}	gid	to allow for huma	an e	error.		
	A. general	В.	complex	C.	inflexible	D.	direct
9.	The tower remains	inta	ct ever after two	hun	dred years.		
	A. unknown	В.	undamaged	C.	unusual	D.	unstable
10	. They didn't seem	to a	appreciate the ma	agni	tude of the probl	em.	
	A. existence	В.	cause	C.	importance	D.	situation
11	. The contract betw	eer	the two compan	ies	will expire soon.		
	A. shorten	В.	start	C.	end	D.	resume
12	. The drinking wate	r ha	as become contain	mina	ated with lead.		
	A. polluted	В.	treated	C.	tested	D.	corrupted

13. She shed a few tears at her daughter's wedding.

A. produced

B. wiped

C. injected

D. removed

14. Rumors began to circulate about his financial problems.

A. send

B. hear

C. confirm

D. spread

15. The police will need to keep a wary eye on this area of town.

A. cautious

B. naked

C. blind

D. private

√ 第2部分: 阅读判断 (第16~22题, 每题1分, 共7分)

下面的短文后列出了7个句子,请根据短文的内容对每个句子作出判断:如果该句提供的是正确信息,请选择A;如果该句提供的是错误信息,请选择B;如果该句的信息文中没有提及,请选择C。

New Understanding of Natural Silk's Mysteries

Natural silk, as we all know, has a strength that manmade materials have long struggled to match. In a discovery that sounds more like an ancient Chinese proverb than a materials science breakthrough, MIT researchers have discovered that silk gets its strength from its weakness. Or, more specifically, its many weaknesses. Silk gets its extraordinary durability and ductility from an unusual arrangement of hydrogen bonds that are inherently very weak but that work together to create a strong, flexible structure.

Most materials — especially the ones we engineer for strength — get their toughness from brittleness. As such, natural silks like those produced by spiders have long fascinated both biologists and engineers because of their light weight, ductility and high strength (pound for pound, silk is stronger than steel and far less brittle). But on its face, it doesn't seem that silks should be as strong as they are; molecularly, they are held together by hydrogen bonds, which are far weaker than the covalent bonds found in other molecules.

To get a better understanding of how silk manages to produce such strength through such weak bonds, the MIT team created a set of computer models that allowed them to observe the way silk behaves at the atomic level. They found that the arrangement of the tiny silk nanocrystals is such that the hydrogen bonds are able to work cooperatively, reinforcing one another against external forces and failing slowly when they do fail, so as not so allow a sudden fracture to spread across a silk structure.

The result is natural silks that can stretch and bend while retaining a high degree of strength. But while that's all well and good for spiders, bees and the like, this understanding of silk geometry could lead to new materials that are stronger and more ductile than those we can currently manufacture. Our best and strongest materials are generally expensive and difficult to produce (requiring high temperature treatments or energy-intensive processes).

By looking to silk as a model, researchers could potentially devise new manufacturing methods that rely on inexpensive materials and weak bonds to create less rigid, more forgiving

materials that are nonetheless stronger than anything currently on offer. And if you thought you were going to get out of this materials science story without hearing about carbon nanotubes. think again. The MIT team is already in the lab looking into ways of synthesizing silk-like structures out of materials that are stronger than natural silk — like carbon nanotubes. Supersilks are on the horizon.

16.	MIT	resea	rchers	carry	out	the	study	to	illustrate	an	ancient	Chinese	proverb	

- B. Wrong
- C. Not mentioned
- 17. Silk's strength comes from its weak hydrogen bonds working together.
 - A. Right
- B. Wrong
- C. Not mentioned
- 18. Biologist and engineer are interested in understanding natural silks because they are very light and brittle.
 - A. Right
- B. Wrong
- C. Not mentioned
- 19. If the hydrogen bonds break due to external forces, they break fast.
 - A. Right
- B. Wrong
- C. Not mentioned
- 20. The MIT team had tried different materials before they studied natural silk in their research.
 - A. Right
- B. Wrong
- C. Not mentioned
- 21. Carbon nanotubes are currently the most popular topic in material science.
 - A. Right
- B. Wrong
- C. Not mentioned
- 22. It is indicated that materials stronger than natural silk can be expected in the future.
 - A. Right
- B. Wrong
- C. Not mentioned



■ 第3部分: 概括大意与完成句子 (第23~30题, 每题1分, 共8分)

下面的短文后有2项测试任务: (1) 第23~26 题要求从所给的6个选项中为指定段 落每段选择1个小标题;(2)第27~30题要求从所给的6个选项中为每个句子确定 一个最佳选项。

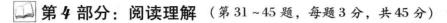
Black Holes

- 1. Black holes can be best described as a sort of vacuum, sucking up everything in space. Scientists have discovered that black holes come from an explosion of huge stars. Stars that are near death can no longer burn due to loss of fuel, and because its temperature can no longer control the gravitational (重力的) force, hydrogen ends up putting pressure onto the star's surface until it suddenly explodes then collapses.
- 2. Black holes come from stars that are made of hydrogen, other gases and a few metals. When these explode it can turn into a stellar-mass (恒星质量) black hole, which can only occur if the star is large enough (should be bigger than the sun) for the explosion to break it into pieces, and the gravity starts to compact every piece into the tiniest particle. Try to see and compare: if a star that's ten times the size of the sun end up being a black hole that's no

longer than 70 kilometers, then the Earth would become black hole that's only a fraction of an inch!

- 3. Objects that get sucked in a black hole will always remain there, never to break free. But remember that black holes can only gobble up (吞噬) objects within a specific distance to it. It's possible for a large star near the sun to become a black hole, but the sun will continue to stay in place. Orbits (轨道) do not change because the newly formed black hole contains exactly the same amount of mass as when it was a star, only this mass is totally contracted that it can end up as no bigger than a state.
- 4. So far, astronomers have figured out that black holes exist because of Albert Einstein's theory of relativity. In the end, through numerous studies, they have discovered that black holes truly exist. Since black holes trap light and do not give off light, it is not possible to detect black holes via a telescope. But astronomers continue to explore galaxies (银河系), space and the solar system to understand how black holes work. It is possible that black holes can exist for millions of years, and later contribute further process in galaxies, which can eventually lead to creation of new entities. Scientists also credit black holes as helpful in learning how galaxies began to form.

Paragraph 1								
Paragraph 2								
Paragraph 3								
Paragraph 4								
 A. Is there proof that black holes really exist? B. What are different types of black holes? C. How are black holes formed? D. How were black holes named? E. What happens to the objects around a black hole? F. What are black holes made of? 								
Black holes are formed after								
When a large star explodes, the gravity compacts ever piece into								
A newly formed black hole and the star it comes from are of								
Albert Einstein's theory of relativity helps to prove								
A. the creation of new entities B. an explosion of huge stars C. the tiniest particle D. the same amount of mass E. the existence of black holes F. a fraction of an inch								



下面有3篇短文,每篇短文后有5道题。请根据短文内容,为每题确定1个最佳选项。



Forecasting Methods

There are several different methods that can be used to create a forecast. The method forecaster chooses depends upon the experience of the forecaster, the amount of information available to the forecaster, the level of difficulty that the forecast situation presents, and the degree of accuracy or confidence needed in the forecast.

The first of these methods is the persistence method; the simplest way of producing a forecast. The persistence method assumes that the conditions at the time of the forecast will not change. For example, if it is sunny and 87 degree today, the persistence method predicts that it will be sunny and 87 degree tomorrow. If two inches of rain fell today, the persistence method would predict two inches of rain for tomorrow. However, if weather conditions change significantly from day to day, the persistence method usually breaks down and is not the best forecasting method to use.

The trends method involves determining the speed and direction of movement for fronts, high and low pressure centers, and areas of clouds and precipitation. Using this information, the forecaster can predict where he or she expects those features to be at some future time. For example, if a storm system is 1,000 miles west of your location and moving to the east at 250 miles per day, suing the trends method you would predict it to arrive in your area in 4 days. The trends method works well when systems continue to move at the same speed in the same direction for a long period of time. If they slow down, speed up, change intensity, or change direction, the trends forecast will probably not work as well.

The climatology method is another simple way of producing a forecast. This method involves averaging weather statistics accumulated over many years to make the forecast. For example, if you were using the climatology method to predict the weather for New York City on July 4th, you would go through all the weather data that has been recorded for every July 4th and take an average. The climatology method only works well when the weather pattern is similar to that expected for the chosen time of year. if the pattern is quite unusual for the given time of year, the climatology method will often fail.

The analog method is a slightly more complicated method of producing a forecast. It involves examining today's forecast scenario and remembering a day in the past when the weather scenario looked very similar (an analog). The forecaster would predict that the weather in this forecast will behave the same as it did in the past. The analog method is difficult to use because it is virtually impossible to find a predict analog. Various weather features rarely align

themselves in the same locations they were in the previous time. Even small differences between the current time and the analog can lead to very different results.

- 31 Which of the following is NOT mentioned in choosing a forecasting method?
 - A. Necessary amount of information.
 - B. Degree of difficulty involved in forecasting.
 - C. Practical knowledge of the forecaster.
 - D. Creativity of the forecaster.
- 32. The persistence method fails to work well when
 - A. it is rainy
 - B. it is sunny
 - C. weather conditions stay stable
 - D. weather conditions change greatly
- 33. The trends method works well when
 - A. weather features are constant for a long period of time
 - B. weather features are defined well enough
 - C. predictions on precipitation are accurate
 - D. the speed and direction of movement are predictable
- 34. The analog method should not be used in making a weather forecast when
 - A. the analog looks complicated
 - B. the current weather scenario is different from the analog
 - C. the analog is more than 10 years old
 - D. the current weather scenario is exactly the same as the analog
- 35. Historical weather data are necessary in ...
 - A. the persistence method and the trends method
 - B. the trends method and the climatology method
 - C. the climatology method and the analog method
 - D. the persistence method and the analog method



Students Learn Better with Touchscreen Desks

Observe the criticisms of nearly any major public education system in the world, and a few of the many complaints are more or less universal. Technology moves faster than the education system. Teachers must teach at the pace of the slowest student rather than the fastest. And—particularly in the United States—grade school children as a group don't care much for, or excel at, mathematics. So it's heartening to learn that a new kind of "classroom of the future" shows promise at mitigating some of these problems, starting with that fundamental piece of classroom

furniture: the desk.

AUK study involving roughly 400 students, mostly aged 8-10 years, and a new generation of multi-touch, multi-user, computerized desktop surfaces is showing that over the last three years the technology has appreciably boosted students' math skills compared to peers learning the same material via the conventional paper-and-pencil method. How? Through collaboration, mostly, as well as by giving teachers better tools by which to micromanage individual students who need some extra instruction while allowing the rest of the class to continue moving forward.

Science, Clay Dillow, classroom of the future, education, engineering, math, mathematics, Synergy Net Traditional instruction still shows respectable efficacy at increasing students fluency in mathematics, essentially through memorization and practice—dull, repetitive practice. But the researchers have concluded that these new touch screen desks boost both fluency and flexibility—the critical thinking skills that allow students to solve complex problems not simply through knowing formulas and devices, but by being able to figure out what there all problem is and the most effective means of stripping it down and solving it.

One reason for this, the researchers say, is the multi-touch aspect of the technology. Students working in the next-gen classroom can work together at the same tabletop, each of them contributing and engaging with the problem as part of a group. Known as Synergy Net, the software uses computer vision systems that see in the infrared spectrum to distinguish between different touches on different parts of the surface, allowing students to access and use tools on the screen, move objects and visual aids around on their desktops, and otherwise physically interact with the numbers and information on their screens. By using these screens collaboratively, the researchers say, the students are to some extent teaching themselves as those with a stronger grasp on difficult concepts pull other students forward along with them.

- 36. Which of the following statements is NOT true of the public education system?
 - A. It does not catch up with the development of technology.
 - B. Teachers pay more attention to fast learners than slow learners.
 - C. Some similar complaints about it are heard in different countries.
 - D. Many students are not good at learning mathematics.
- 37. What has been found after the new tech is employed?
 - A. Teachers are able to give individualized attention to students in need.
 - B. Students become less active in learning mathematics.
 - C. Students show preference to the conventional paper-and-pencil method.
 - D. The gap between slow learners and fast learners gets more noticeable.
- 38. What is the benefit student get from the new tech?
 - A. It makes them more fluent in public speech.
 - B. It offers them more flexibility in choosing courses.
 - C. It is effective in helping them solve physical problems.