



TUNITING WAY 28 Institute m H 3 multille m # 3 multine m \*\* \* multille m # " multilite # # \* 13. A rectangle is partitioned into four smaller rectangular Ro 42 % 56 pieces, three of which have areas, 42, 56 and 66. The fourth one is not given. What is the area of the missing rectangle? a. 72 b. 80 c. 88 2 66 d. 92 e. none of these 山北新林省際 stitute \$ # # 13 PK · /3. 9% Ro Autitute # # 13 14. Solve the complex number equation, 2 = (3 + i) x - 6i. e. 1.2 + 1.6ia. 2*i* c. 1.5 - 2id. 2.5 i b. 1.2 – 1.6*i* 面抗加化物样等除 加限新教学 加斯林塔院 · 12 Ph R Tablitute ## # Let a - 2b = 3c where a, b, and c are positive, and let  $\frac{a}{b} = \frac{b}{c}$ . Determine  $\frac{a}{b}$ . 15.  $c_{1} \frac{3+\sqrt{17}}{2}$ c. 3/2 而如此他称并接  $\frac{1}{2}$ a. 3 matitute # # '3 muitute # # 3 Ro Let  $n = k^3 - k$ , where k is a natural number larger than 1. Which of the following statements are 16. TRUE for all values of k > 1? R. ii. *n* is divisible by 3 iii *n* is divisible by 5 i. n is even a. i. only c. i and iii b. i and ii d. all of them e. none of them stitute # # 13 PK Ro  $1 + 5 + 9 + 13 + 17 + \dots + 97 + 101 = ?$ itute ## 17. b. 1,241 a. 1,352 c. 2,704 d. 1,326 e. none of these N. 18. Consider a cylinder with a circular base of radius of 4 and with two points, в A and B, on the rims directly over each other. If the shortest possible path around the side surface of the cylinder as shown in the figure is  $10\pi$ , what is the height of the cylinder, AB? b. 573 K a. 4 withte the the the с. 6**π** ж 3<sup>96</sup> d. 7π d. 7π 4. % e. 8π Y. to the the B to the the 1/3 Ph R the the the 's · 标状 法 to the We is to the th

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₩L V	19.	If 5 <sup>2014</sup> a. 1	is divide	ed by 7, b. 2	what is its	c. 3	r? Mitule 称 林	d. 4	加地称林塔	e. 5	ILL WAR WE W	R Institut
<b>%</b> (*	20.	An equila area to th a. 1	ateral triangl	angle an e's area b. $\frac{3\gamma}{2}$	and a square a? $\sqrt{\frac{3}{4}}$	the have the solution of the c. $\frac{\sqrt{3}}{2}$	same peri	meter. When $\frac{2\sqrt{3}}{3}$	hat is the r	atio of th e. none of	e square's	R Institute
PK.	21.	The sum	of two re	الله مع eal num	bers is 12.	The sum	of their so	guares is 9	ullu 称 <sup>法 绪</sup> 4. What i	s their pr	oduct?	C matitut
W.	institute *	a. 25	thatitule the	b. 36		c. 35	withit with	d. 396–	12√11	e. none o	of these	K matitut
W.	22.	The sum difference a. $8\frac{2}{3}$	of three betwee	real nu en the la b. 9	mbers is 18 argest and the second sec	8. The mid the smalles c. $9\frac{1}{6}$	ddle numb st is 7, wh	er is the a at is the va d. 10	verage of alue of the	the other largest n e. none c	two. If the number? of these	e &
<b>%</b> 5	23.	The sum between value of	of four r one num the third	eal nun ber and numbe	nbers is 24 l the next i r?	. When re s constant.	arranged If the s	from small econd num	lest to larg iber is twi	gest, the d ce the firs	lifference st, what is	the
140	¥	a. 2.4	AN OTHER	b. 7	Water alier	c. 7.2	被破	d. 9.6	·····································	e. none c	of these	dine.
R.	24.	The sum of five real numbers is 30. These numbers have the property that they can be arranged in a sequence such that the next value is the sum of the previous two. If the first two numbers are the same, what is their common value?										
120	institute *	a. 1.5	institute #	b. 2	mistinte #	c. 2.5	Nitule Wark	d. 3	加加新林省	e. none c	of these	linstitut
A.	1.0 \$	NA K K	in the	****	· · · · ·	法保险	城城	K Hu	如城水省	- AL	、物水、後等	6 . xe





