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13.	Given a triangle a. 0.52°	with sides of leng	ths: $\sqrt{3}$, $\sqrt{3}$, and c. 45°	d 3, find the measur d. 60°	e of its smallest angle e. none of these	R matitut	
14.	Given the two-d together. If you of the time will	igit numbers, 10 th repeatedly apply that single digit nu	nrough 99, and the function <i>P</i> until yo unber be 0?	function, <i>P</i> , that m u get a single digit	ultiplies the two digits number, what percent	age	
	a. 10%	b. $14\frac{4}{9}\%$	c. $18\frac{8}{9}\%$	d. 24%	e. $26\frac{2}{3}\%$		
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15.	What is the area	of a right triangle	with a 56 cm perin	meter and a hypoter	use of length 25 cm?	mstitute	
	a. 48 cm ²	b. 84 cm ²	c. 168 cm ²	d. 700 cm^2	e. none of these		
1960	1- B PR	13 12	it is the	in the file	its the second	N.	
16.	How many faces	s does a polyhedra	l solid with 18 vert	tices and 32 edges h	nave?	mstitute	
	a. 14	b. 16	c. 18	d. 28	e. 48		
(A)	1/2 Chs	The Pro	No the	No the	1/2 the	14 C	
tinditute *	 17. This is the information about students participating in a field trip: 36 were female students, 13 were male seniors, 41 were not drama majors, exactly half of the drama majors were male, a third of the female students were drama majors but not seniors, there were 15 senior drama majors 20% of which were male. 						
	a. 89	b. 90	c. 99	d. 105	e. none of these		
18.	How long is the angle is 36°?	hypotenuse of a ri	ght triangle if the l	longer leg has lengt	h $\sqrt{5}$ and the smaller	st Mitth	
1000 time time to	a. 5 ************************************	b. 5√5	c. $0.5 + \sqrt{5}$	# '& d. 11 militute # *	e, 2.7	R matitut	
(%)	W. E. W.	with the the	· 法资料	·法·洛	"浅雅"	₩s te	



multille m # " multine m ** * Institute m # 3 matitute \$\$ 75 'S multine m X 's multine m X 3 25. Three mutually tangent unit circles are circumscribed by a fourth Y. itute the the circle as shown in the figure on the right. What proportion of the largest circle's area is shaded? c. $\frac{3}{2}\sqrt{3} - 2$ a. $36\sqrt{3} - 62$ b. 0.25 e. $\frac{2-\sqrt{3}}{6}$ mytille # # 3 PS Astitute the the " the " 训师称林塔梯 mstitute ## d. $6\sqrt{3} - 10$ Ro A ceiling fan with 45 cm long blades spins 132 rotations a minute. If a fly is sitting at the tip of 26. the blade, approximately how fast is it traveling? 12 Viv R a. 18.4 km/hr b. 22.4 km/hr c. 37.3 km/hr d. 128.5 km/hr e. 373.2 km/hr The interior angles of a pentagon have measures $x, x + 20^{\circ}, x + 40^{\circ}, x + 60^{\circ}$ and $x + 80^{\circ}$. What is 27. Ro the measure of the largest angle? d. 220° b. 148° a. 68° e. none of these The area of a right triangle is 36. What is the shortest possible length of its hypotenuse? 28. c. $\sqrt{72}$ d. 12 a. $\sqrt{18}$ b. 6 e. none of these Let k be a natural number and $n = 2k^2 + 1$. Which of the following statements are true for all \sqrt{k} values of *n*? 29. i. *n* is NOT divisible by 2 ii. *nk* is divisible by 3 iii. *n* is NOT divisible by 5 b. i and ii c. i and iii d. none of them a. i only e. all of them 加加斯林道院 stille # # 13 PK Ro 30. A rectangle is partitioned into four smaller rectangular pieces, three of which have areas, 15, 21 and 32. The fourth one is not 15 21 given. What is the area of the entire rectangle? Alitute # # # 18 a. 45 Y. 32 % c. 86.2 b. 68 d. 112.8 e. none of these to the the Be the Lo the the the to the the the the

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31. The ratio of the dimensions of a rectangular solid is 5:4:3, and the ratio of this solid's volume to its surface area is 2:1. What is the length of the solid's shortest side?

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