Item #	Response A/F	Response B/G	Response C/H	Response D/J	
1				D is incorrect because the	
		-		gesaph shows a line that go	
		through the origin, which			
	makes the linear relations	ninpakes the linear relations	Iminpakes the linear relations	nipakes the linear relations	hip
	proportional.	non-proportional.	proportional.	proportional.	
2	F is correct because the	G is incorrect because the	H is incorrect because the	J is incorrect because the	
	pentagon is translated 1 u	pentagon is translated 1 ເ	pentagon is translated 1 u	pentagon is translated 1 u	
	the left and 10 units down	the left and 10 units down	the left and 10 units down	the left and 10 units down	,
	which is described by the	which is described by the	which is described by the	which is described by the	
	transformation rule (x - 1,	transformation rule (x - 1,	transformation rule (x - 1,	transformation rule (x - 1,	y -
	10).	10), not (x + 1, y - 10).	10), not $(x - 1, y + 10)$ .	10), not $(x + 1, y + 10)$ .	
3		% LV LQFRUUHI		'LV LQFRUŮ//91i1s	W EHFDXV
	EHWZHHQ WKH	Æ HWDZQG Θ Q OEVKH	¥E H W DZ OĘ ŪQ OEV K H	¥HWDZQ TΘQ OFVKH	¥ DQG
	This comparison is true.	This comparison is true.	This comparison is NOT t	rue.	
				D is correct because the	
			dilation rule for P' can be		
				forund by multiplying each	
			The state of the s	tthe coordinates of (6, -3) I	-
				the scale factor, u, which	s
			represented by (6u, -3u),	nepresented by (6u, -3u).	
			(6 + 1/u, -3 + 1/u).		
6				J is incorrect because the	
				slope can be found by the	
		the gallons of gasoline, y,			
				gasoline, y, divided by the	
				notherange in the number of r	
				dtiven, x, which is -1/25, r	
		_		25. The y-intercept is 15, inumber of gallons of gaso	
	when 0 miles were driven	_	when 0 miles were <b>ein</b> i.v	when 0 miles were driven	
	375.	Juluno II.	Wigh Chings wel <b>e wil</b> .v	15.	HOL
7		B is incorrect because the		10.	
'		formula for volume of a			
		F\OEDQGHULV9	Œ U		
		R 9 Œ	u. 0		
		lv a re			
	QRW 9 <sup>2</sup> . Œ K				
				J is correct because it sho	
				the values in the milliliters	
		milliliters column, m, to be			
	by the corresponding valu		29.57 multiplied by the	multiplied by the	
		. •		corresponding values in the	ne
	multiplied.	fluid ounces column, f.	fluid ounces column, f.	fluid ounces column, f.	

Item #	Response A/F	Response B/G	Response C/H	Response D/J
9	A; 32.5 is correct because	B; Students may have add		
	using the Pythagorean	19.5 + 26 = 45.5 or multip	lied	
	Theorem, $^2$ a+ $\cancel{b}$ = $\cancel{c}$ gives,	19.5 x 26 = 507.		
	$26^2 + 19.5 = 1056.25$ and t	he		
	square root of 1056.25 is			
10				

	Response A/F	Response B/G	Response C/H	Response D/J
1 1/ 1				D is correct because AB/\
			ntDE/YZ does not represe	
	-	-	thse proportion of the leng	-
		1	1	cofresponding sides of the
			the given similar figures.	
	o o			ا ا
18	F is incorrect because 0.0	G is correct because 0.00	H is incorrect because	J is incorrect because 0.0
	is written as 1.65 x3in0	is written as 1.65 x <sup>3</sup> ih0	0.00165 is written as 1.65	is Written as 1.65 x³ih0
	scientific notation, not 165	scientific notation.	<sup>3</sup> in scientific notation not	seigntific notation, not 0.16
	10 <sup>5</sup> .		x 10 <sup>4</sup> .	$10^{2}$ .
19		R is incorrect because the		D is incorrect because the
		4		graph shows the cost of 5
				dollars for every pound of
				endecan, which is represente
	y = 5x.			by=the function y = 5x, not
	y = 5%.	1/5 x.	2x.	1/2x.
20	F is incorrect because the	G is correct because the		J is incorrect because the
20	dilation rule (1/4x, 1/4y)	dilation rule (1/4x, 1/4y)	dilation rule (1/4x, 1/4y)	dilation rule (1/4x, 1/4y)
	,	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	creates a pentagon that is
	smaller than the original	smaller than the original	smaller than the original	
	pentagon, not a larger	pentagon. The 1/4 scale f	_	
	pentagon. The 1/4 scale f		1. •	theantagon. The 1/4 scale f
	is less than 1, not greater		11.	is less than 1.
	1.			io iogo triarr 1.
21	A is correct beause the	B is incorrect beginse the	C is incorrect becase the	D is incorrect begse the
	A is correct beause the formula for simple interes	B is incorrect becase the		D is incorrect becase the
	formula for simple interes	fismenula for simple interes	fisrılmula for simple interes	fiscrimula for simple interest
	formula for simple interes = Prt, so I = 2,500(0.0475	fismhula for simple interes = Prt, so I = 2,500(0.0475	fisrimula for simple interes = Prt, so I = 2,500(0.0475	fisrlmula for simple interes: )= Prt, so I = 2,500(0.0475)
	formula for simple interes = Prt, so $I = 2,500(0.0475(1.5))$ , which is about 178.13.	fissrimula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about178.13.	fisr mula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about 178.13.	fisrimula for simple interest )= Prt, so I = 2,500(0.0475) (1.5), which is about 178.13.
	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least	fisr mula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least	fisr mula for simple interes Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least	fisrImula for simple interes: )= Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least
	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the	fisrimula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the	fisrimula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least amount of interest for the	fisrImula for simple interes: Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least amount of interest for the
	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least	fisrmula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan, not 2,500(0.04)(2.5)	fisr mula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least amount of interest for the toan, not 2,500(0.0425)(2	fisr mula for simple interest = Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least amount of interest for the lean, not 2,500(0.0450)(3)
	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan.	fishhula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan, not 2,500(0.04)(2.5) 250.	fisrimula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least amount of interest for the	fisrImula for simple interes: Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least amount of interest for the
22	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13.  This option has the least amount of interest for the loan.  F is incorrect because the	fishhula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan, not 2,500(0.04)(2.5) 250.	fisr mula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least amount of interest for the toan, not 2,500(0.0425)(2	fisr mula for simple interest = Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least amount of interest for the lean, not 2,500(0.0450)(3)
22	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan.  F is incorrect because the Pythagorean TheorenDis	fishhula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan, not 2,500(0.04)(2.5) 250.	fisr mula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least amount of interest for the toan, not 2,500(0.0425)(2	fisr mula for simple interest = Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least amount of interest for the lean, not 2,500(0.0450)(3)
22	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan.  F is incorrect because the Pythagorean TheorenDis $b^2 = \mathcal{E}$ , so $102 + 82 =$	fishhula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan, not 2,500(0.04)(2.5) 250.	fisr mula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least amount of interest for the toan, not 2,500(0.0425)(2	fisr mula for simple interest = Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least amount of interest for the lean, not 2,500(0.0450)(3)
22	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan.  F is incorrect because the Pythagorean TheorenDis	fishhula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan, not 2,500(0.04)(2.5) 250.	fisr mula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least amount of interest for the toan, not 2,500(0.0425)(2	fisr mula for simple interest = Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least amount of interest for the lean, not 2,500(0.0450)(3)
22	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan.  F is incorrect because the Pythagorean TheorenDis $b^2 = \mathcal{E}$ , so $102 + 82 =$	fishhula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan, not 2,500(0.04)(2.5) 250.	fisr mula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least amount of interest for the toan, not 2,500(0.0425)(2	fisr mula for simple interest = Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least amount of interest for the lean, not 2,500(0.0450)(3)
22	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan.  F is incorrect because the Pythagorean TheorenDis $b^2 = \mathcal{E}$ , so $102 + 82 =$	fishhula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan, not 2,500(0.04)(2.5) 250.	fisr mula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least amount of interest for the toan, not 2,500(0.0425)(2	fisr mula for simple interest = Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least amount of interest for the lean, not 2,500(0.0450)(3)
22	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan.  F is incorrect because the Pythagorean TheorenDis $b^2 = \mathcal{E}$ , so $102 + 82 =$	fishhula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan, not 2,500(0.04)(2.5) 250.	fisr mula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least amount of interest for the toan, not 2,500(0.0425)(2	fisr mula for simple interest = Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least amount of interest for the lean, not 2,500(0.0450)(3)
22	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan.  F is incorrect because the Pythagorean TheorenDis $b^2 = \mathcal{E}$ , so $102 + 82 =$	fishhula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan, not 2,500(0.04)(2.5) 250.	fisr mula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least amount of interest for the toan, not 2,500(0.0425)(2	fisr mula for simple interest = Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least amount of interest for the lean, not 2,500(0.0450)(3)
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22	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan.  F is incorrect because the Pythagorean TheorenDis $b^2 = \mathcal{E}$ , so $102 + 82 =$	fishhula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan, not 2,500(0.04)(2.5) 250.	fisr mula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least amount of interest for the toan, not 2,500(0.0425)(2	fisr mula for simple interest = Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least amount of interest for the lean, not 2,500(0.0450)(3)
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22	formula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan.  F is incorrect because the Pythagorean TheorenDis $b^2 = \mathcal{E}$ , so $102 + 82 =$	fishhula for simple interes )= Prt, so I = 2,500(0.0475 (1.5), which is about178.13. This option has the least amount of interest for the loan, not 2,500(0.04)(2.5) 250.	fisr mula for simple interes = Prt, so I = 2,500(0.0475 (1.5), which is about 178.13. This option has the least amount of interest for the toan, not 2,500(0.0425)(2	fisr mula for simple interest = Prt, so I = 2,500(0.0475) (1.5), which is about 178.13. This option has the least amount of interest for the lean, not 2,500(0.0450)(3)
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	0.00	[ <u> </u>		[ <u>0.00</u>
	<u>√0.03</u>	<u> 5.03</u>	<u> </u>	<u>√0.02</u>
	i e e e e e e e e e e e e e e e e e e e			
1				

Item #	Response A/F	Response B/G	Response C/H	Response D/J
33	A is correct because the	B is incorrect because the	C is incorrect because the	D is incorrect because the
	Pythagorean Theorem is	₽ythagorean Theorem is	Pythagorean Theorem ≀is ≀	Pythagorean Theoreளீ is a
	$b^2 = c^2$ , so $1^2 + x^2 = 3^2$ which	$b^2 = c^2$ , so $1^2 + x^2 = 3^2$ which	$b^2 = c^2$ , so $1^2 + x^2 = 3^2$ which	$b^2 = \hat{c}$ , so $1\hat{2} + \hat{x} = 3\hat{9}$ which
	simplifies to ± 1,377 and t	simplifies to ± 1,377 and t	simplifies tổ <b>≭</b> 1,377 and t	simplifies to ≠ 1,377 and t
				septare root of 1,377 is closes
	to 37.1.	to 37.1, not 40.8.	to 37.1, not 27.	to 37.1, not 51.
34	F; 40 is correct because i	G: Studente may have		
34		multiplied 4 baskets times	5	
		nours to get 20 or multipli		
		times 5 to get 10.		
		-		
35		B is correct because the		
		fissrimula for simple interes		
		= Prt and the interest is 6		
		5,000 = 1,500, so $1,500 = 5,000$		
		<b>5</b> ቲ <b>0</b> 00(r)(4), and dividing b sides by 20,000 gives r =	. , . ,	our
	0.075 = 7.5%, not 5.8%.		0.075 = 7.5%, not 3.3%.	
	0.073 = 7.370, 1100 3.070.	0.073 = 7.570.	0.073 = 7.370, 1100 3.370.	

Item #	Response A/F	Response B/G	Response C/H	Response D/J	
40	F is incorrect because the	G is incorrect because the	H is incorrect because the	J is correct because the	
	scatterplot models a posit	i <b>se</b> atterplot models a posit	seatterplot models a posit	<b>se</b> atterplot models a posit	ive
	linear association, not a n	di <b>n</b> ear association, not a	linear association, not a n	dinear association betweel	
	linear association, between	negative linear association	apparent association, bet	lanes rented and the num	ber
	the lanes rented and the	between the lanes rented	thredlanes rented and the	of people who bowl.	
	number of people who bo	withe number of people who	number of people who bo	wl.	
		bowl.			
41	A is incorrect because the	B is correct because the	C is incorrect because the	D is incorrect because the	
	formula for volume of a	formula for volume of a	formula for volume of a	formula for volume of a	
	F\OLQGHHUsoLW=9	F∖ <b>©EU</b> QGH <sup>2</sup> hU,soLW=9	F\OOELUQGHHUJsoLW=9	F\OOELUQGHHUJsoLW=9	ŒU
	Œ 2(10.5) which is closes	t COE 2(10.5) which is closes	t COE 2(10.5) which is closes	t <b>CE</b> 2(10.5) which is closes	t to
	, ,	296.88. ´	, ,	296.88, not 197.92.	
42	F is incorrect because the	G is incorrect because the	H is incorrect because the	J is correct because the to	
	lines appear to intersect a	lines appear to intersect a	lines appear to intersect a	lines appear to intersect a	
	18, not day 15.	18, not day 48.	18, not day 33.	18.	