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Summer Assignment For Incoming Freshmen

Part 1: Please complete the following 40 multiple choice questions. You must attach a separate piece of paper with all work shown and then record final answer in space provided. Each question is worth 1 credit.

is false	1) The statement "If x is divisible by 8, then it is divisible by 6"			2) The expression $\sqrt{50}$ can be simplified to					
15 Idisc	if x equal (1)	ls 6	(3)	32)	$5\sqrt{2}$	(3)	$2\sqrt{25}$
	(2)	14	(4)	48	(2))	$5\sqrt{10}$	(4)	$25\sqrt{2}$
				D.C., is shaped like a	4) The prod	luct of	$4x^2y$ and $2xy^3$	is	
		If the length+ 2, its perimete		de of the Pentagon is	(1))	$8x^2y^3$ $8x^3y^3$	(3)	$8x^3y^4$
Teprese	(1)	5n + 10	(3)	n+10	(2))	$8x^3y^3$	(4)	$8x^2y^4$
	(2)	5n + 2	(4)	10 <i>n</i>					
5) W/L	iah aana	tion is an illust	uation of	the addition identity	6) Which m	1	has the greatest		
propert		tion is an inust	iation of	the additive identity					π
-	(1)	$x \cdot 1 = x$	(3)	x - x = 0	(1))	$1\frac{-}{3}$	(3)	$\frac{\pi}{2}$
	(2)	x + 0 = x	(4)	$x \cdot \frac{1}{x} = 1$	(2))	$1\frac{2}{3}$ $\sqrt{2}$	(4)	1.5
				X	(2)		V-2	(.)	1.0
				n odd integer, which	8) Twenty-	five po	ercent of 88 is th	e same as	what percent of 22?
express		sents the next gre n-5	eater odd i	nteger? n-1	(I))	$12\frac{1}{2}\%$	(3)	50%
	(1) (2)	n-2	(4)	n+1	(1)	,	2	(3)	1000/
					(2))	40%	(4)	100%
		2			10) 1171 : 1		100 0	1: .1	1110
9) If t =		$3t^2 + 5t + 6$ eq -36		6	10) Which	ınequa	ality is represente	-	
	(1) (2)	-6	(3) (4)	6 18			-5-4-3-2-	10123	3 4 5
	. ,				(1))	$-4 < x < 2$ $-4 \le x < 2$	(3)	$-4 < x \le 2$
					(2))	$-4 \le x < 2$	(4)	$-4 \le x \le 2$
11) Wł	nich numb	per is rational?					15x8		
	(1)	π	(3)	$\sqrt{7}$	12) The que	otient	of $-\frac{15x^8}{5x^2}$, $x \neq $ (3) (4)	0, is	
	(2)	$\frac{5}{4}$	(3) (4)	3	(1) -3	\mathbf{x}^4	(3)	$-3x^6$	
	(2)	$\overline{4}$	(1)	$\sqrt{2}$	(2) -1	0 x ⁴	(4)	$-10x^6$	
13) Wh		value of 3^{-2} ?							taking buses on a trip of 52. What is the
(1)	$\frac{1}{9}$	(3)	9				uses needed for		101 32. What is the
(2)			0		(1)		8	(3)	10
(2)		(4)			(2)	N	0	(1)	11
	$-\frac{1}{9}$	(4)	-9		(2))	9	(4)	11
			5,000	pproximately 93					
15) The	e distance miles. A	e from Earth to th	e Sun is a write that	number as	16) Helen i	s using	g a capital H in a	n art desig	
15) The	e distance miles. A	e from Earth to the scientist would 9.3×10 ⁶	e Sun is a write that (3)	number as 93×10^7	16) Helen i (1) on (2) on	s using ly one	g a capital H in a line of symmetr points of symm	n art desig	gn. The H has
15) The	e distance miles. A	e from Earth to th	e Sun is a write that	number as	16) Helen i (1) on (2) on (3) tw	s using	g a capital H in a line of symmetr points of symm s of symmetry ar	n art desig y etry nd only on	
15) The million	e distance miles. A (1) (2)	e from Earth to the A scientist would 9.3×10^6 9.3×10^7	e Sun is a write that (3) (4)	number as 93×10^7 93×10^{10}	16) Helen i (1) on (2) on (3) tw (4) tw	s using ly one ly two to lines to lines	g a capital H in a line of symmetr points of symm s of symmetry ar s of symmetry ar	n art desig y etry nd only on	gn. The H has
15) The million	e distance miles. A (1) (2)	e from Earth to the A scientist would 9.3×10^6 9.3×10^7	e Sun is a write that (3) (4)	number as 93×10^7 93×10^{10}	16) Helen i (1) on (2) on (3) tw (4) tw	s using ly one ly two to lines to lines	g a capital H in a line of symmetr points of symm s of symmetry ar s of symmetry ar	in art desig y etry ad only on ad two poi	gn. The H has e point of symmetry nts of symmetry
15) The million	e distance miles. A (1) (2) one-half o r, what is	e from Earth to the A scientist would 9.3×10^6 9.3×10^7	e Sun is a write that (3) (4)	number as 93×10^7 93×10^{10}	16) Helen i (1) on (2) on (3) tw (4) tw	s using ly one ly two to lines to lines	g a capital H in a line of symmetr points of symm s of symmetry ar s of symmetry ar	n art desig y etry nd only on	gn. The H has
15) The million	e distance miles. A (1) (2)	e from Earth to the A scientist would 9.3×10^6 9.3×10^7 of a number is 8 lethen number?	e Sun is a write that (3) (4)	number as 93×10^7 93×10^{10} wo-thirds of the	16) Helen i (1) on (2) on (3) tw (4) tw	s using ly one ly two o lines to lines	g a capital H in a line of symmetr points of symm s of symmetry ar s of symmetry ar	in art desig y etry ad only on ad two poi	gn. The H has e point of symmetry nts of symmetry
15) The million	(1) (2) one-half or, what is	e from Earth to the A scientist would 9.3×10^6 9.3×10^7 of a number is 8 letter number?	e Sun is a write that (3) (4) ess than tw	number as 93×10^{7} 93×10^{10} wo-thirds of the	16) Helen i (1) on (2) on (3) tw (4) tw 18) The value (1)	s using ly one ly two o lines to lines	g a capital H in a line of symmetry are sof symmetry are sof symmetry are sof symmetry are lise $\frac{1}{5}$	an art design y etry and only on and two poi	gn. The H has e point of symmetry nts of symmetry
15) The million	e distance miles. A (1) (2) one-half o r, what is (1) (2)	e from Earth to the A scientist would 9.3×10^6 9.3×10^7 of a number is 8 lot the number? 24	e Sun is a write that (3) (4) ess than tw (3) (4)	number as 93×10^{7} 93×10^{10} wo-thirds of the 48 54	16) Helen i (1) on (2) on (3) tw (4) tw 18) The valu (1)	s using ly one ly two o lines o lines	g a capital H in a line of symmetry are soft symmetry are soft symmetry are soft symmetry are lise $\frac{1}{5}$	in art design y etry ad only on ad two poi	gn. The H has e point of symmetry nts of symmetry 20 120
15) The million	e distance miles. A (1) (2) one-half or, what is (1) (2) that is th	e from Earth to the A scientist would 9.3×10^6 9.3×10^7 of a number is 8 lot the number? 24 32	e Sun is a write that (3) (4) ess than tw (3) (4)	number as 93×10^{7} 93×10^{10} wo-thirds of the	16) Helen i (1) on (2) on (3) tw (4) tw 18) The valu (1) (2) 20) If n rep an answer t	s using ly one ly two o lines o lines of 5	g a capital H in a line of symmetry are soft symmetry are soft symmetry are soft symmetry are $\frac{1}{5}$	in art design y etry ad only on ad two poi	gn. The H has e point of symmetry nts of symmetry 20 120 emputation results in
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15) The million 17) If conumber 19) W	e distance miles. A (1) (2) one-half or, what is (1) (2) that is th	e from Earth to the A scientist would 9.3×10^6 9.3×10^7 of a number is 8 lot the number? 24 32	e Sun is a write that (3) (4) ess than tw (3) (4)	number as 93×10^{7} 93×10^{10} wo-thirds of the 48 54	16) Helen i (1) on (2) on (3) tw (4) tw 18) The valu (1) (2) 20) If n rep an answer t	s using ly one ly two o lines o lines of 5	g a capital H in a line of symmetry are soft symmetry are soft symmetry are soft symmetry are $\frac{1}{5}$	in art design y etry ad only on ad two poi	gn. The H has e point of symmetry nts of symmetry 20 120 emputation results in
15) The million 17) If conumber 19) W	e distance miles. A (1) (2) one-half or, what is (1) (2) hat is the second of the seco	e from Earth to the A scientist would 9.3×10^6 9.3×10^7 of a number is 8 lot the number? 24 32	e Sun is a write that (3) (4) ess than tw (3) (4)	number as 93×10^{7} 93×10^{10} wo-thirds of the 48 54	16) Helen i (1) on (2) on (3) tw (4) tw 18) The valu (1) (2) 20) If n rep an answer t (1)	s using ly one ly two o lines o lines of 5	g a capital H in a line of symmetry are points of symmetry are sof symmetry are sof symmetry are $\frac{1}{5}$.	in art design y etry ad only on ad two poi	gn. The H has e point of symmetry nts of symmetry 20 120 Inspect of the symmetry $3 \times n - 2$
15) The million 17) If conumber 19) W radius 3	e distance miles. A (1) (2) (2) (2) (3) (4)	e from Earth to the A scientist would 9.3×10^6 9.3×10^7 of a number is 8 lot the number? 24 32 e approximate of 7.07 9.42 18.85 28.27	e Sun is a write that (3) (4) ess than two (3) (4)	number as 93×10^{7} 93×10^{10} wo-thirds of the 48 54 ence of a circle with	16) Helen i (1) on (2) on (3) tw (4) tw 18) The value (1) (2) 20) If n rep an answer t (1) (2)	s using s usin s using	g a capital H in a line of symmetry are points of symmetry are sof symmetry are sof symmetry are $\frac{1}{5}$.	m art design yetry and only on and two points (3) (4) (4) (3) (4) (3) (4)	gn. The H has e point of symmetry nts of symmetry 20 120 Insert the symmetry $3 \times n - 2$ $3 \times n + 1$
15) The million 17) If conumber 19) W radius 3	character distance of miles. A (1) (2) cone-half or, what is (1) (2) cone-half or, what is that is that is the square of the squ	e from Earth to the a scientist would 9.3×10 ⁶ 9.3×10 ⁷ of a number is 8 let the number? 24 32 e approximate constraints of the number of	e Sun is a write that (3) (4) ess than two (3) (4) eircumfered greater the cube of the sun is a write that (3) (4) ess than two (3) (4) eircumfered greater the cube of the cube of the sub-	number as 93×10^7 93×10^{10} wo-thirds of the 48 54 ence of a circle with than 1 that is both the of an integer?	16) Helen i (1) on (2) on (3) tw (4) tw 18) The value (1) (2) 20) If n rep an answer t (1) (2)	s using s usin s using	g a capital H in a line of symmetry are points of symmetry are sof symmetry are sof symmetry are $\frac{1}{5}$ is an odd number an even number $2 \times n + 1$ $2 \times n - 1$	m art design yetry and only on and two points (3) (4) (3) (4) (3) (4) ded to $3x - (3)$	gn. The H has e point of symmetry nts of symmetry 20 120 mputation results in $3 \times n - 2$ $3 \times n + 1$ -7 to equal 0? $-3x - 7$
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(1) 2^7 (3) 8^5	26) A total of \$450 is divided into equal shares. If Kate receives four shares, Kevin receives three shares, and Anna receives the
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	remaining two shares, how much money did Kevin receive?
(2)	(1) \$100 (3) \$200 (2) \$150 (4) \$250
27) What is the diameter of a circle whose circumference is 5?	28) A roll of candy is shown in the accompanying diagram.
(1) $\frac{2.5}{\pi^2}$ (3) $\frac{5}{\pi^2}$ $\frac{2.5}{\pi}$ (4) $\frac{5}{\pi}$	The shape of the candy is best described as a
$(1) \qquad \pi^2 \qquad \qquad (3) \qquad \pi^2$	(1) rectangular solid
$\frac{2.5}{}$ $\frac{5}{}$	(2) pyramid (3) cone
$(2) \pi (4) \pi$	(4) cylinder
29) Which equation is an illustration of the additive inverse	30) On June 17, the temperature in New York City ranged from
property? (1) $x \cdot 1 = x$ (3) $x - x = 0$	90° to 99°, while the temperature in Niagara Falls ranged from 60° to 69°. The difference in the temperatures in these two cities
(2) $x + 0 = x$ (3) $x - x = 0$ $x \cdot - = 1$	must be between
$x \cdot \underline{-} = 1$	(1) 20° and 30° (3) 25° and 35° (2) 20° and 40° (4) 30° and 40°
31) If 6 and x have the same mean (average) as 2, 4, and 24, what is the value of x?	32) In a hockey league, 87 players play on seven different teams. Each team has at least 12 players. What is the largest possible
(1) 5 (3) 14	number of players on any one team?
(2) 10 (4) 36	(1) 13 (3) 15 (2) 14 (4) 21
	(1) 21
33) The ratio of the corresponding sides of two similar squares is	34) The expression $\sqrt{93}$ is a number between
1 to 3. What is the ratio of the area of the smaller square to the area of the larger square?	(1) 3 and 9 (3) 9 and 10
area of the larger square? (1) 1: $\sqrt{3}$ (3) 1:6	
area of the larger square?	(1) 3 and 9 (3) 9 and 10
area of the larger square? (1) 1: $\sqrt{3}$ (3) 1:6 (2) 1:3 (4) 1:9	(1) 3 and 9 (3) 9 and 10 (2) 8 and 9 (4) 46 and 47
area of the larger square? (1) 1: $\sqrt{3}$ (3) 1:6 (2) 1:3 (4) 1:9	(1) 3 and 9 (3) 9 and 10 (2) 8 and 9 (4) 46 and 47 36) If the number represented by n-1 is an odd integer, which
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ANSWERS

1.	11.	21.	31.
2.	12.	22.	32.
3.	13.	23.	33.
4.	14.	24.	34.
5.	15.	25.	35.
6.	16.	26.	36.
7.	17.	27.	37.
8.	18.	28.	38.
9.	19.	29.	39.
10.	20.	30.	40.



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Math & Science Department Gabriella Triola, Assistant Principal

Moses Ojeda, Principal (IA)

Name:			
varric.			

Part 2: Please answer the following questions and make sure to show all work. Total is worth 10 credits.

T-shirt Sale Any 3 T-shirts for \$14.50 \$6.99 \$5.99 \$3.99

1. Tom bought these three T-shirts at the sale price of \$14.50. How much money did he save compared to the original total price of the T-shirts? Show your calculations.

% 2. What percentage of the original total price did Tom save? Show your work.

3. Harry also paid \$14.50 for three T-shirts at the sale. The sale price saved Harry 30% of the original price of the three T-shirts. What is the original total price of his three T-shirts?

Show your calculations.