Assessment

9 Cha	pter 9 Test,	Form 2A		SCORE _	
Write the letter f Juestion.	for the correct ans	wer in the blank at	t the right of each		
1. Given $B(-4, -4)$	6), under which refle	ction is $B'(4, 6)$?		1	
A. reflected in the <i>x</i>-axisB. reflected in the <i>y</i>-axis		C. reflected in the origin D. reflected in the line $y = x$			
2 Name the image	x_0 of \overline{FF} under reflect	ion in line ℓ	χ.	9	
F \overline{FG}		$\mathbf{H}_{\mathbf{H}} \overline{\mathbf{EH}}$	$E + F \ell$	4 • _	
G. \overline{HG}		J. \overline{FE}	fXf		
		H	G G		
3. How many line	v many lines of symmetry does a regular decagon				
A . 0	B . 2	C . 5	D . 10	3	
4. Which property	v is changed by a tran	islation?		4	
F. collinearity		H. distance measure			
G. angle measu	ire	J. position			
5. What is the im	age of $Y(-4, 7)$ under	the translation (x, y	(x + 3, y - 5)?	5	
A. <i>Y</i> ′(-1, 2)	B. $Y'(-1, 12)$	C. $Y'(-7, 2)$	D. $Y'(-7, 12)$	Ð	
6 Which transfor	motion turns arows n	wint of the proimage	through a gradified		
angle and direc	tion about a fixed po	int?	through a specified	6	
F. reflection	G. rotation	H. translation	J. dilation		
		<i>(</i> 1 , 1 , 1 , 1 ,			
7. Find the angle form a 72°-ang	of rotation for a figur	re reflected in two lir	hes that intersect to	7	
A. 36°	B. 72°	C. 144°	D. 288°		
8. Given a tessella	ation, find the sum of	f the measures of the	angles of the	8	
F 90	G 180	H 360	J 720		
1. 00	0.100		0. 120		
9. Describe this to	essellation.	$\langle \nabla \nabla \rangle$		9.	
A. uniform and regular $\searrow \bigcirc \checkmark$					
B. uniform and semi-regular					
C. not uniform	but regular				
D. not uniform	and semi-regular				
10. What type of d	ilation occurs with a	scale factor of $\frac{1}{4}$?		10.	
F. enlargement		H. congruence transformation		<u> </u>	
G. reduction		J. inverse transformation			

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	9 Chapt	er 9 Test, Fo	rm 2A (c	continued)			
11.	 Find the scale factor △<i>DEF</i> under a dila A. 2 B. 1 	or if $ riangle D'E'F'$ is the station with center <i>C</i> .	image of C. –1 D. –2		11		
12.	12. Sue scans a 4-inch picture into her computer. She stretches the picture's length to 10 inches. Find the scale factor she used.						
	F. 6	G. $\frac{5}{2}$	H. 2	J. $\frac{2}{5}$			
13.	Find the component ${f A.}~\langle -2,2 angle$	t form of \overline{CD} with C B. $\langle 2, 2 \rangle$	C(5, -7) and D(0) C. $\langle 8, -16 \rangle$	$(-3, 9).$ D. $\langle -8, 16 \rangle$	13		
14.	Find the magnitud F. $\langle -6, 4 \rangle$	e of \overline{CD} with $C(5, 2)$ G. $2\sqrt{13}$	and $D(-1, 6)$. H. $4\sqrt{5}$	J. 10	14		
15.	Find the direction of A. 33.7°	of \overline{CD} with $C(5, 2)$ an B. 56.3°	d <i>D</i> (−1, 6). Rot C. 123.7°	und to the nearest tenth. D. 146.3°	15		
16.	Find the image of I F. $P'(4, 9)$	P(-2, 4) under a tran G. $P'(-4, -9)$	nslation by the $\mathbf{H}. P'(-8, -1)$	e vector $\mathbf{\overline{b}} = \langle 6, 5 \rangle$. J. $P'(8, 1)$	16		
17.	<i>HIJK</i> is a trapezoid coordinates of the i A. $(20, -13)$	d with $H(5, 4), I(10, 10)$ mage of H under the B. (15, -7)	-2), <i>J</i> (-8, -2) e translation (<i>x</i> C. (-5, 15)), and $K(-3, 4)$. Find the $(x, y) \rightarrow (x + 10, y - 11)$. D. (7, -7)	17		
18.	Find the reflection F. $(6, -1)$	of the point <i>A</i> (6, -1 G. (-6, 1)) across the lin H. (6, 1)	the $y = x$. J. (-1, 6)	18		
19.	Which of the follow A. decagon	ving regular polygon B. pentagon	s tessellates th C. hexagon	ne plane? D. octagon	19		
20.	20. A pilot is flying due east at a speed of 300 miles per hour and wind is blowing due north at 50 miles per hour. What is the magnitude of the resultant velocity of the plane?						
	F. 350 mph	G. $\sqrt{90,000}$ mph	H. $\sqrt{92,500}$ n	nph J. 2500 mph			
Bo	nus Find a vector i a direction opp	n component form we posite to $\mathbf{\hat{a}} = \langle -3, -4 \rangle$	vith magnitude 4>.	e 1 in B:			

DATE _____ PERIOD _____

NAME

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