Honors Review Quiz 11 (50 questions)

Name You may v	vrite on this sheet,	 but put all final a	inswers on the Scar	ntron.		
1.	If C is between X an A. $6n - 6$	d Y with $CX = 8n - 4$ B. $6n - 14$	and $CY = 2n + 10$, what C . $10n + 6$	at is XY? D. 10n – 6		
2.	What is the midpoin A. (6, -4)	t of a line that has end B. (6, -2)	points at (-2, -3) and (8 C. (3, -2)	, -1)? D. (-6,-4)		
3.	If C is between X an A. $5n-3$	d Y with $XY = 6n - 4$ B. $5n - 5$	and $CY = n + 1$, what is $C. 7n - 3$	is CX? D. 7n – 5		
4.	What are the measur of their measures is 8 A. 39, 51		ary angles if the difference. 86, 94	nce D. 41, 49		
5.			the coordinates of the n C. (2, 5)	· 		
6.	If the radius of a circ A. 20π	the is 20 cm, what is the B. 40π	ne circumference? (Igno $C.~80\pi$	ore units) D. 400π		
7.	What is the area of a A. 6π	circle with a radius o B. 12π	f 6 cm? (Ignore units) C. 18π	D. 36π		
8.	Which description best describes a stop sign? A. a regular convex octagon C. a regular concave octagon D. an irregular convex octagon					
9.	Which equation wor A. $y = -\frac{1}{7}x - 3$	ald be perpendicular to B. $y = \frac{1}{7}x + 3$	the $y = -\frac{1}{7}x + 3$? C. $y = 7x - 5$	D. None of the above		
10.	•	due North and then 4 n your starting point? B. 33 miles	-8 miles due West, roun C. 59 miles	ded to the nearest mile D. 61 miles		
11.		linear pair with $\angle A =$ what is the measuremed B. 12		D. 42		
12.		ertical angles with $\angle A$ what is the measuremed B. 80		D. None of the above		

13.	Let p represent the statement "x is not a real number" and q represent "x is an integer." What would the symbolic language be for "If x is not a real number, then x is not n integer"? A. $\sim p \rightarrow q$ B. $p \rightarrow \sim q$ C. $\sim q \rightarrow p$ D. $\sim q \rightarrow \sim p$						
	71. p · q	Б. р ч ч	C. 4 P	D. 9 P			
14.	Consider the statement: "If an angle is 90 degrees, it is a right angle." Is the converse of this statement true or false? A. True B. False						
15.	The inverse of "if you are old, you have a big head" is "if you don't have a big head, then you are not old." A. True B. False						
16.	The contrapositive of "if you have a dog, you like cats" is "if you don't like cats, you love dogs." A. True B. False						
17.	"If you like dogs, you like cats" is represented by $p \rightarrow q$. What would be the symbolic representation of "if you don't like cats, you like dogs"?						
	A. $\sim p \rightarrow q$	B. $p \rightarrow \sim q$	C. $\sim q \rightarrow p$	D. $\sim q \rightarrow \sim p$			
18.	"If you have a laptop, then you have a computer" is represented by $p \rightarrow q$. What is the symbolic representation of "If you have a computer, then you don't have a laptop"?						
	A. $q \rightarrow p$	B. $p \rightarrow \sim q$	C. $\sim q \rightarrow p$	D. $q \rightarrow \sim p$			
19.	Let p represent $\sqrt{11} = z$, and let q represent z is a rational number. What is a symbolic representation of the statement: "If $\sqrt{11} = z$, then z is not a rational number"?						
	A. $q \rightarrow p$	B. $p \rightarrow \sim q$		D. $q \rightarrow \sim p$			
20.	If AB = 6 and AB + A. Subtraction	BC = 10, then 6 + BC B. Addition	= 10 demonstrates who	at property? D. Symmetric			
21.	If $\triangle ABC \cong \triangle ERT$ with AB = 10, BC = 13, $\angle A = 39^\circ$, and $\angle R = 88^\circ$, what is RT?						
	A. 39°	B. 88°	C. 10	D. 13			
22.	If $AB + BC = XY + BC$, then $AB = XY$ demonstrates what property?						
	A. Subtraction	B. Addition	C. Substitution	D. Symmetric			
23.	In my class, everyone plays either golf or tennis. 14 play golf and 8 play tennis. If 3 play both tennis and golf, how many kids are in my class?						
	A. 17	B. 19	C. 22	D. 25			
24.	There are 30 kids who play either soccer or baseball. 4 of the 30 kids play both soccer and baseball. If the soccer team has 18 members, how many kids are on the baseball team?						
	A. 12	B. 16	C. 20	D. 26			
25.	There are 14 kids in band and 16 in chorus. If 4 of these kids are in both chorus and band, how many total kids are in either band or chorus?						
	A. 26	B. 28	C. 30	D. 34			

26.	What is the perime A. 20 cm	eter of a square with an B. 25 cm	area of 25 cm ² ? C. 50 cm	D. 625 cm				
27.	What equation would be perpendicular to $y = 2x + 5$							
	A. $y = -x - 5$	B. $y = -2x - 5$	C. $y = -\frac{1}{2}x - 5$	D. $y = \frac{1}{2}x - 5$				
28.		the from $(1, 5)$ to $(7, 6)$? B. $\sqrt{23}$	2	D. None of the above				
29.	If BCDE is congruent to OPQR, then \overline{DE} is congruent to?							
	A. \overline{PR}	B. \overline{PQ}	C. \overline{QR}	D. <u>OP</u>				
30.	Line a and line b are perpendicular to each other. If line a has a slope of 4, what is the slope of line b?							
	A. 4	B4	C. $\frac{1}{4}$	D. $-\frac{1}{4}$				
31.	What is the value of A. 15°	of x in the figure below B. 16°	? C. 19°	D. 0°				
a a II b								
	6x + 10	b						
32.	If the diagonal distance of a rectangle is 97 cm and one of the sides is 65 cm, what is the other side length?							
	A. 71 cm	B. 72 cm	C. 117 cm	D. 118 cm				
33.	In $\triangle ABC$, $\angle A = 3n$ A. 20°	$\angle B = 5n - 30, \angle C = 2n$ B. 40°	$n+10$. What is the me C. 60°	pasurement of $\angle A$? D. 80°				
34.	Give the equation A. $y = 4x - 26$	in slope intercept form B. $y = 4x + 1$	that goes through (2, 7) C. $y = -4x + 15$	y) and has a slope of 4. D. $y = 4x - 1$				
35.	What would be the slope of the line that is perpendicular to $y = 5x + 4$?							
	A. 5	В5	C. $\frac{1}{5}$	D. $-\frac{1}{5}$				
36.	Give the equation in slope intercept form that goes through (3, 4) and (5, 10).							
	A. $y = 3x - 4$	B. $y = -3x + 13$	C. $y = 3x - 5$	D. $y = \frac{1}{3}x + 3$				
37.	In $\triangle ABC$, $\angle A = 3n$	$\angle B = 5n - 30, \angle C = 2n$	n+10. What is the me	easurement of $\angle A$?				

A. 20°

B. 40°

C. 60°

D. 80°

____38. If $\triangle ABC$ is an isosceles triangle with AB = BC, which statement must be true?

A. $\angle C = \angle B$

B. $\angle A = \angle B$

C. $\angle A = \angle C$

D. AC = B

____39. If $\triangle ABC \cong \triangle XYZ$, which of the following must be true?

A. $\angle A = \angle Z$

B. AC = XY

C. XZ = BC

D. None of the above

____40. If $\triangle ABC$ is an isosceles triangle with AC = BC and $\angle A = 40^{\circ}$, what is $\angle B$?

A. 40°

B. 70°

C. 80°

D. None of the above

____41. If $\triangle ABC \cong \triangle XYZ$, AB = 38, YZ = 28, and XY = 5x + 8, what is the value of x?

A. 30

B. 20

C. 6

D. 4

____42. If $\triangle RST \cong \triangle HIJ$, $\angle R = 97^{\circ}$, $\angle J = 37^{\circ}$, and $\angle S = 4x + 14$, what is the value of x?

A. 10

B. 32

C. 46

D. 8

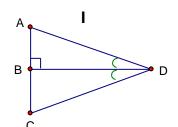
____43. If in $\triangle CWH$, $\angle W = \angle H$ what can you conclude?

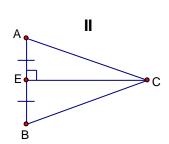
A. CW = WH

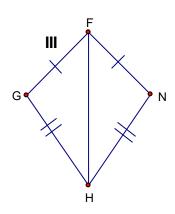
B. CH = CW

C. CH = WH

D. $\angle C = 100^{\circ}$







____44. In picture I above, what allows you to immediately conclude that $\triangle ABD \cong \triangle CBD$?

A. ASA

B. SAS

C. AAA

D. SAA

45. In picture II above, what allows you to immediately conclude that $\triangle AEC \cong \triangle BEC$?

A. ASA

B. SAS

C. AAA

D. SAA

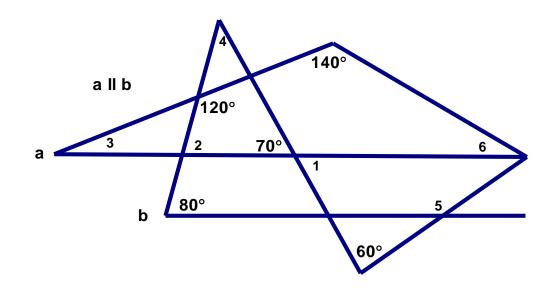
____46. In picture III above, what allows you to immediately conclude that $\Delta FGH \cong \Delta FNH$?

A. SSS

B. SAS

C. AAA

D. SAA



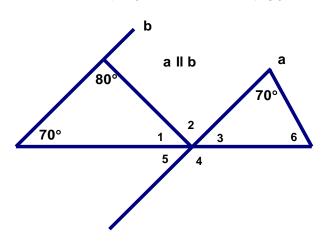
 $\underline{}$ 47. What is the measurement of $\angle 3$ above?

A. 20°

B. 30°

C. 70°

D. 80°



 $\underline{}$ 48. What is the measurement of $\angle 6$ above?

A. 20°

B. 30°

C. 40°

D. 70°

____49. Points A, B, C, D, E, and X are all collinear (lie on the same line).

Consider the given facts:

C is the midpoint of \overline{AB}

D is the midpoint of \overline{XE}

X is the midpoint of \overline{AC}

E is the midpoint of \overline{XC}

DE = 4 cm

What is AB?

A. 24 cm

B. 36 cm

C. 48 cm

D. 64 cm

__50. If $\angle ABC = 96^{\circ}$, what is $\angle YBL$ given the following facts:

 \overrightarrow{BX} bisects $\angle ABC$

 \overrightarrow{BD} bisects $\angle ABX$

 \overrightarrow{BL} bisects $\angle XBC$

 \overrightarrow{BN} bisects $\angle ABD$

 \overrightarrow{BY} bisects $\angle NBD$

D. 62°

A. 24°

B. 48°

C. 54°