Sharyland ISD Study Guide

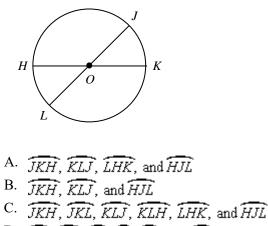
Geometry Semester B

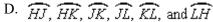
Student Name: Student ID:

Geometry Semester B CBE

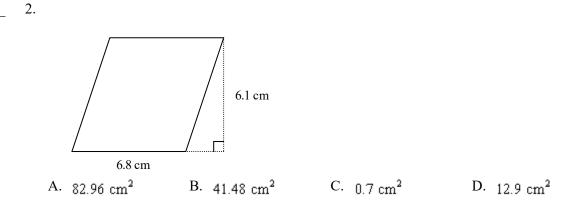
REVIEW

1. What are the major arcs of $\bigcirc O$ that contain point *J*?

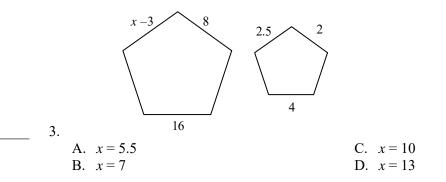


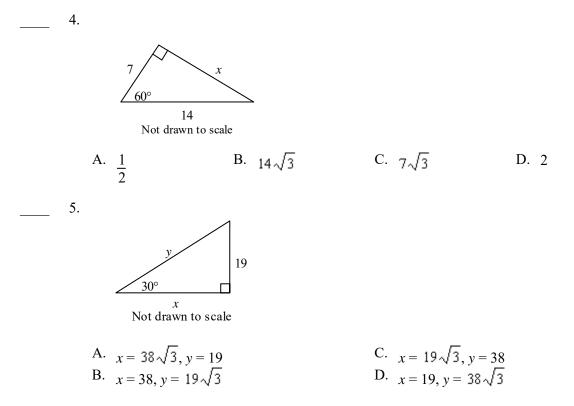


Find the area. The figure is not drawn to scale.



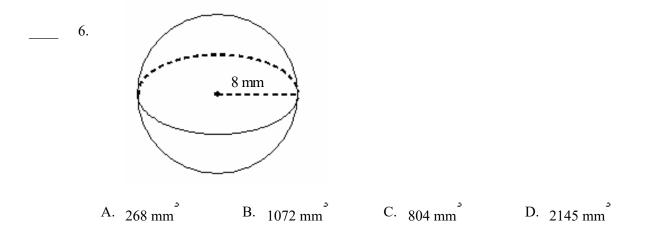
The polygons are similar, but not necessarily drawn to scale. Find the value of x.



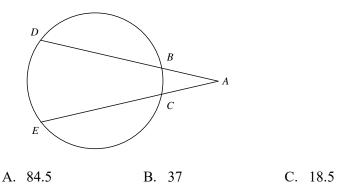


Find the value of the variable(s). If your answer is not an integer, leave it in simplest radical form.

Find the volume of the sphere shown. Give each answer rounded to the nearest cubic unit.



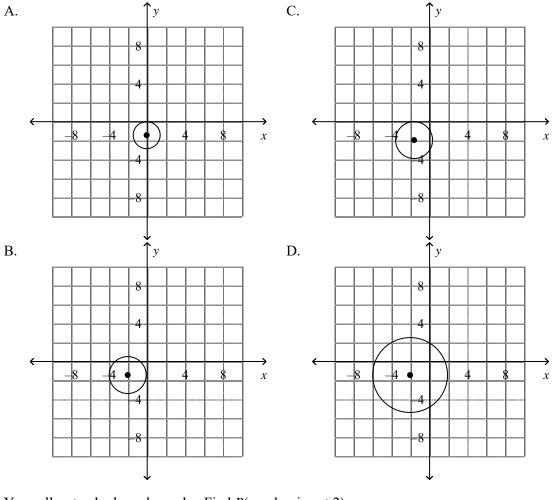
7. $\widehat{mDE} = 103$ and $\widehat{mBC} = 66$. Find $m \angle A$. (The figure is not drawn to scale.)





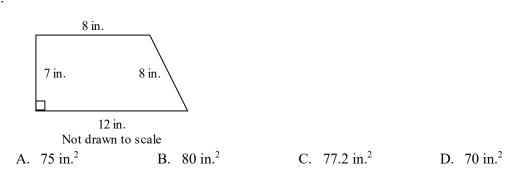
D. $\frac{1}{6}$

8. A manufacturer is designing a two-wheeled cart that can maneuver through tight spaces. On one test model, the wheel placement (center) and radius is modeled by the equation $(x + 2)^2 + (y + 1.5)^2 = 4$. What is the graph that shows the position and radius of the wheels?

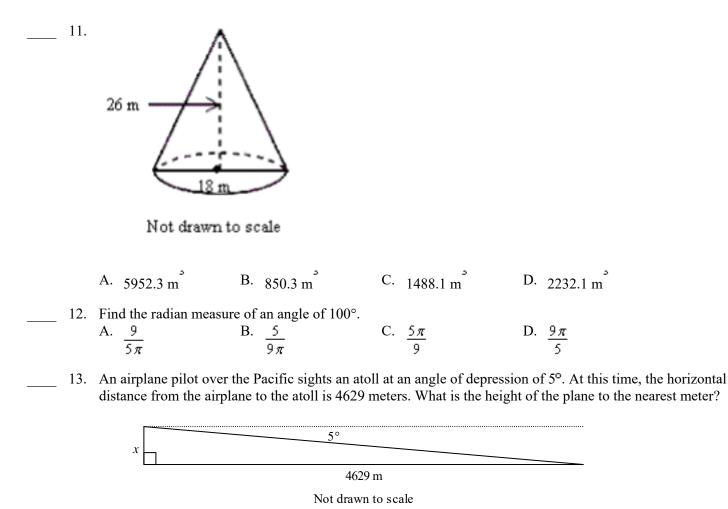


9. You roll a standard number cube. Find *P*(number is not 2). A. $\frac{2}{3}$ B. $\frac{5}{6}$ C. $\frac{1}{2}$





Find the volume of the right cone shown as a decimal rounded to the nearest tenth.



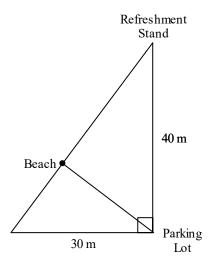
C. 4611 m

D. 405 m

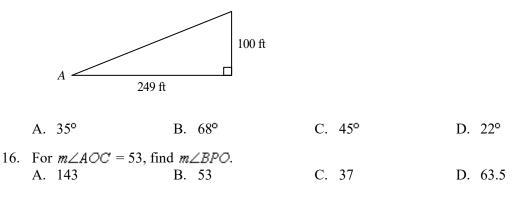
B. 403 m

A. 4647 m

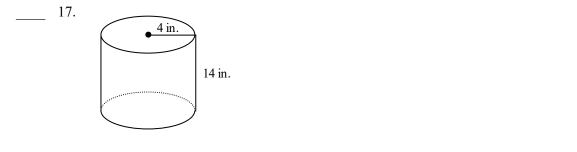
14. Jason wants to walk the shortest distance to get from the parking lot to the beach.



- **a.** How far is the spot on the beach from the parking lot?
- **b.** How far will his place on the beach be from the refreshment stand?
- A. 38 m; 12 mC. 34 m; 16 mB. 24 m; 18 mD. 24 m; 32 m
- 15. A large totem pole in the state of Washington is 100 feet tall. At a particular time of day, the totem pole casts a 249-foot-long shadow. Find the measure of $\angle A$ to the nearest degree.



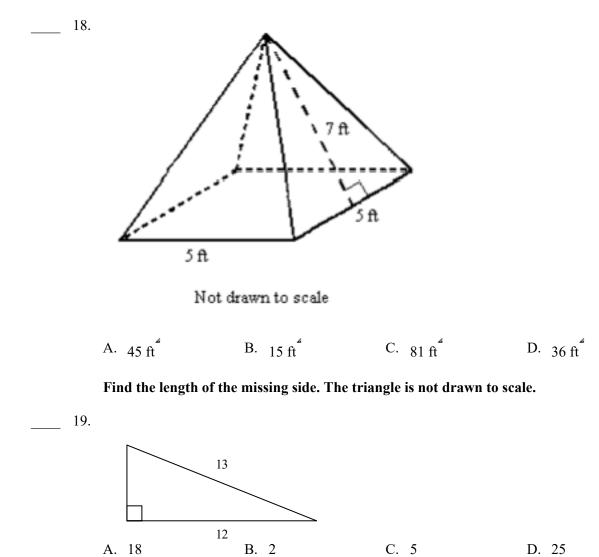
Find the surface area of the cylinder in terms of π .



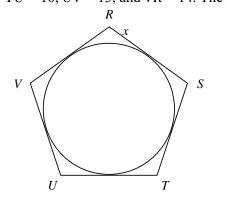
Not drawn to scale

A.
$$112\pi$$
 in. B. 144π in. C. 128π in. D. 240π in.

Find the surface area of the regular pyramid shown to the nearest whole number.

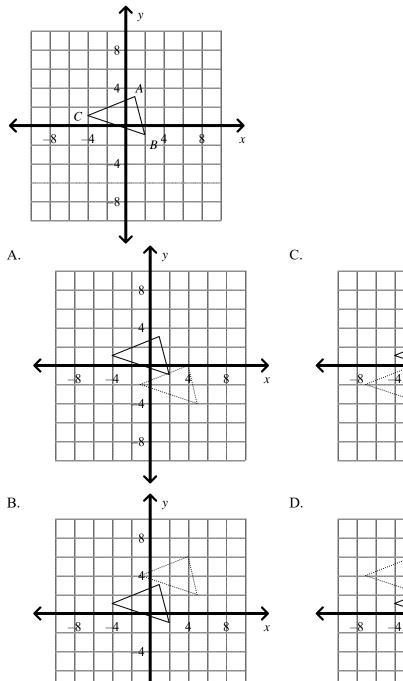


20. Pentagon *RSTUV* is circumscribed about a circle. Solve for x for RS = 7, ST = 8, TU = 10, UV = 13, and VR = 14. The figure is not drawn to scale.

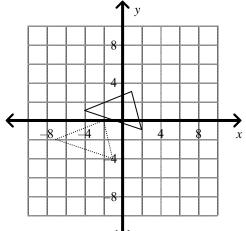


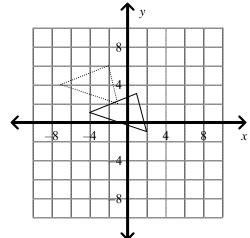
A. 5 B. 10.5 C. 10 D. 2

21. Which graph shows $T_{\langle -3,3 \rangle}(\triangle ABC)$?

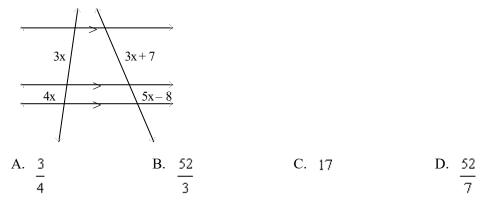


8

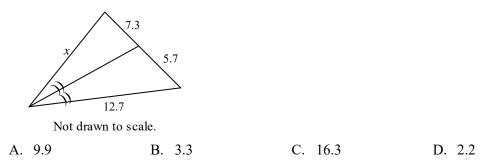




22. What is the value of x?

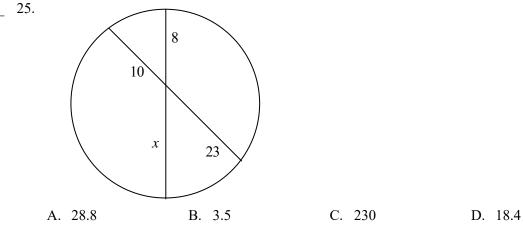


23. What is the value of x to the nearest tenth?

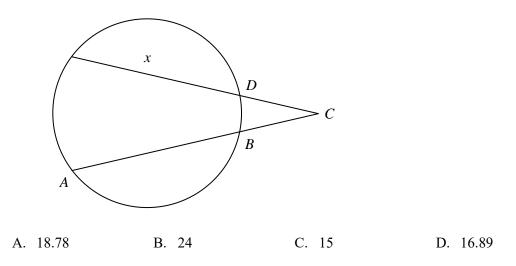


- 24. Describe in words the translation of X represented by the translation rule $T_{\langle 4,-1 \rangle}(X)$.
 - A. 1 units to the right and 4 units up
 - B. 4 units to the left and 1 units up
 - C. 4 units to the right and 1 units down
 - D. 4 units to the left and 1 units down

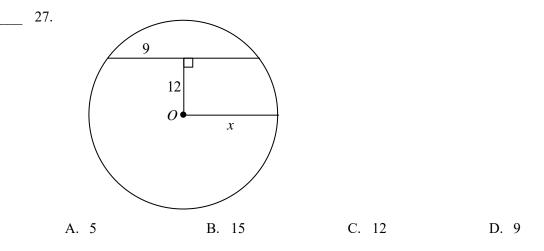
Find the value of x. If necessary, round your answer to the nearest tenth. The figures are not drawn to scale.



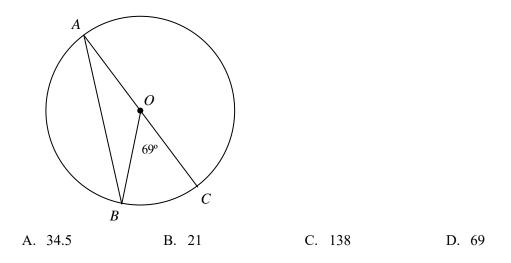
26. AB = 19, BC = 8, and CD = 9



Find the value of x. If necessary, round your answer to the nearest tenth. O is the center of the circle. The figure is not drawn to scale.

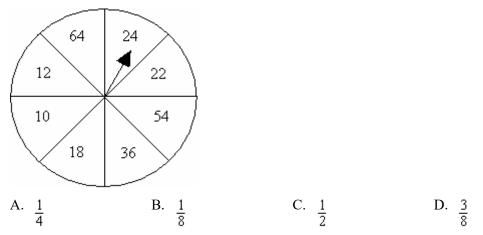


28. Find the measure of $\angle BAC$ in circle O. (The figure is not drawn to scale.)

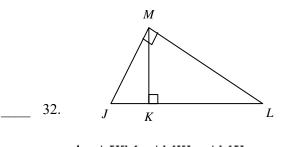


The figures are similar. Give the ratio of the perimeters and the ratio of the areas of the first figure to the second. The figures are not drawn to scale.

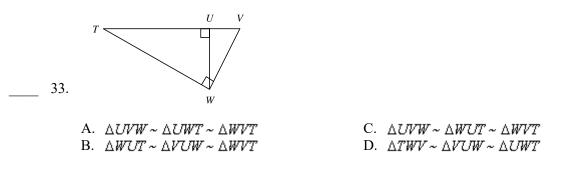
- 30. Write a rule in function notation to describe the transformation that is a reflection across the y-axis. A. $R_{x=0}(x,y)$ C. $R_{y=0}(x,y)$ B. $R_{y=x}(x,y)$ D. $R_{x=-1}(x,y)$
- 31. This is a spinner used in a board game. What is the probability that the spinner will land on a multiple of 3 and 4?



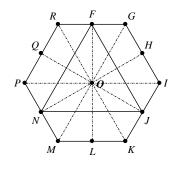
What similarity statement can you write relating the three triangles in the diagram?



- A. $\Delta JKM \sim \Delta MKL \sim \Delta MJL$ B. $\Delta JLM \sim \Delta MLK \sim \Delta JKM$
- C. $\Delta JMK \sim \Delta MLK \sim \Delta JLM$
- D. $\Delta JMK \sim \Delta LMK \sim \Delta JLM$

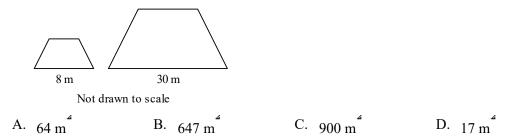


The hexagon *GIKMPR* and $\triangle FJN$ are regular. The dashed line segments form 30° angles.



- 34. What is $r_{(240^\circ, O)}(M)$?

 A. O
 B. R
 C. P
 D. I
- 2 35. The trapezoids are similar. The area of the smaller trapezoid is 46 m². Find the area of the larger trapezoid to the nearest whole number.



Use a trigonometric ratio to find the value of x. Round your answer to the nearest tenth.

36.

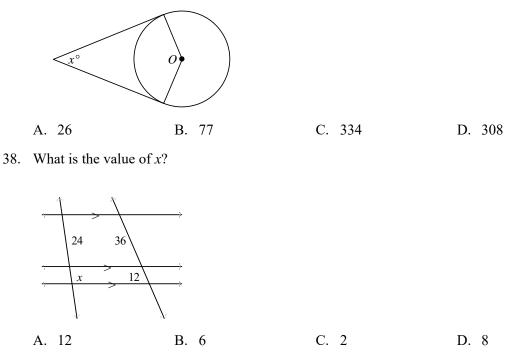


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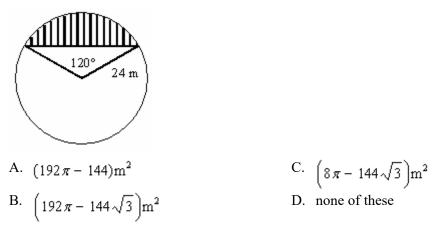
A. 24.7	B. 3.3	C. 3.1	D. 8.5
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Assume that lines that appear to be tangent are tangent. *O* is the center of the circle. Find the value of *x*. (Figures are not drawn to scale.)

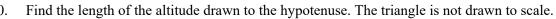
____37. *m∠O* = 154

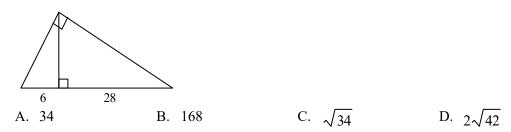


39. Find the exact area of the shaded region.

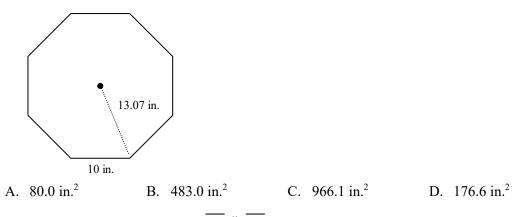


40.

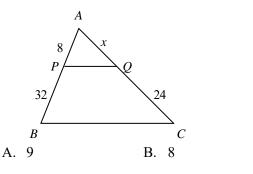




41. Find the area of the regular polygon. Round your answer to the nearest tenth.



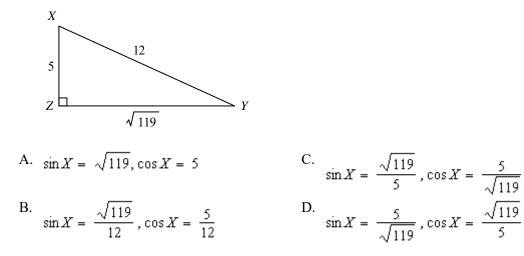
42. What is the value of *x*, given that $\overline{PQ} \parallel \overline{BC}$?



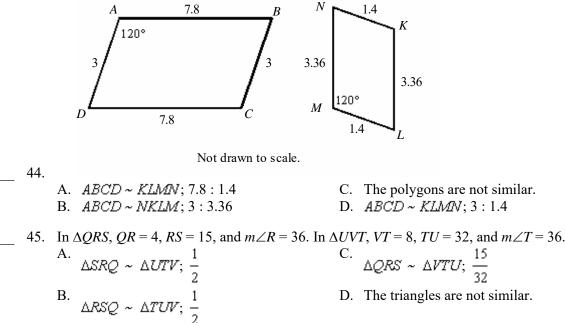
D. 6

C. 12

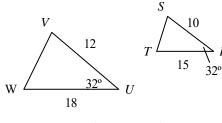
43. Write the ratios for $\sin X$ and $\cos X$.



Are the polygons similar? If they are, write a similarity statement and give the scale factor.



D. The triangles are not similar.



Not drawn to scale.

46.

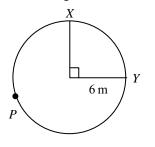
A. $\triangle RST \sim \triangle VWU;$ B. $\triangle RST \sim \triangle WUV;$

C.

$$\Delta RST \sim \Delta UVW; \frac{5}{6}$$

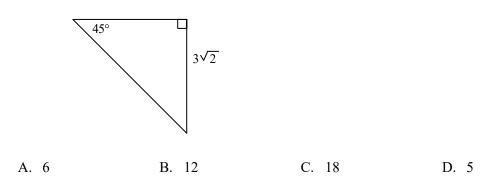
D. The triangles are not similar.

47. Find the length of \widehat{YPX} . Leave your answer in terms of π .

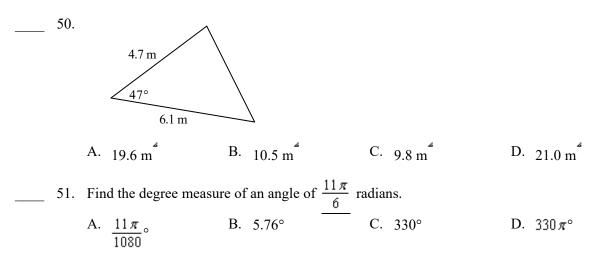


- A. 18π m B. 9π m C. 540π m D. 3π m
- 48. Write a rule in function notation to describe the transformation that is a reflection across the *x*-axis.
 - A. $R_{y=0}(x, y)$ C. $R_{y=x}(x, y)$

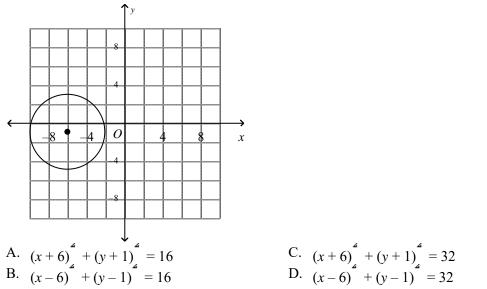
 B. $R_{x=0}(x, y)$ D. $R_{x=y}(x, y)$
- _____ 49. Find the length of the hypotenuse.



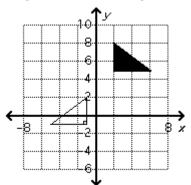
Find the area of the triangle. Give the answer to the nearest tenth. The drawing may not be to scale.



52. A low-wattage radio station can be heard only within a certain distance from the station. On the graph below, the circular region represents that part of the city where the station can be heard, and the center of the circle represents the location of the station. Which equation represents the boundary for the region where the station can be heard?

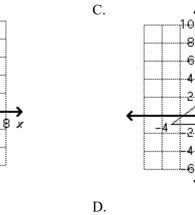


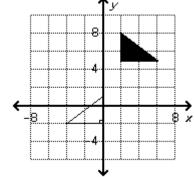
53. Find the glide reflection image of the black triangle for the composition $(R_{x-1} \circ T_{\langle 0,-7\rangle})$.

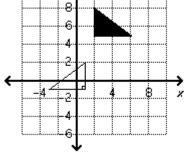


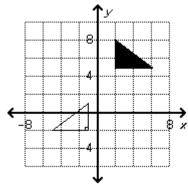
A.

B.

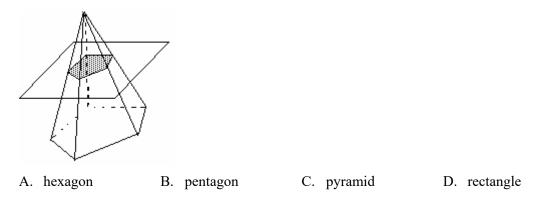






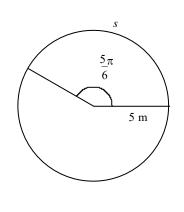


54. Pierre built the model shown in the diagram below for a social studies project. He wants to be able to show the inside of his model, so he sliced the figure as shown. Describe the cross section he created.



Use the given circle. Find the length *s* to the nearest tenth.

55.

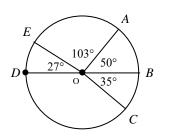






D. 13.1 m

56. Find the measure of \overrightarrow{ABC} . The figure is not drawn to scale.



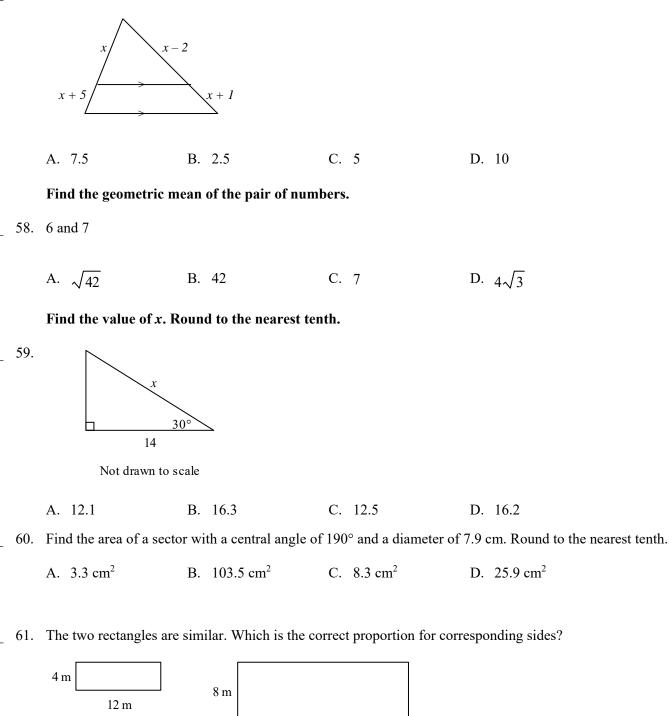
A. 85

B. 95

C. 275

D. 75

57. What is the value of x?





24 m

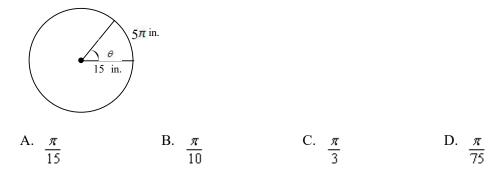
Write the standard equation for the circle.

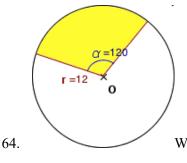
62. center (-6, -8), that passes through (0, 0)

A.
$$(x-6)^{4} + (y-8)^{4} = 196$$

B. $(x+6)^{4} + (y+8)^{4} = 14$
C. $(x-6)^{4} + (y-8)^{4} = 10$
D. $(x+6)^{4} + (y+8)^{4} = 100$

63. Use the circle below. What is the measure of θ (in radians) of the central angle?

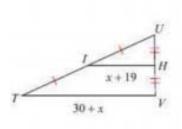




What is the area of the following sector? (approximate pi to 3.14)

- A. 452.16 sq. units
- B. 120 sq. units
- C. 150.72 sq. units
- D. 1,356.48 sq. units

65. Find the value of the x



REVIEW

Geometry Semester B CBE Answer Section

1.	ANS:							
		11-1.1 To find the measures of central angles and arcs $STA: (10)(B) (12)(B)$						
	TOP:	11-1 Problem 1 Naming Arcs KEY: major arc minor arc semicircle						
2.	ANS:	B PTS: 1 DIF: L3						
	REF:	13-1 Areas of Parallelograms and Triangles						
	OBJ:	13-1.1 To find the areas of parallelograms and triangles STA: (11)(A) (11)(B)						
	TOP:	13-1 Problem 1 Finding the Area of a Parallelogram KEY: area parallelogram base height						
3.	ANS:	D PTS: 1 DIF: L3 REF: 9-1 Similar Polygons						
	OBJ:	9-1.1 To identify and apply similar polygons STA: (7)(B)						
	TOP:	9-1 Problem 3 Using Similar Polygons						
	KEY:	corresponding sides proportion similar polygons						
4.	ANS:	C PTS: 1 DIF: L2 REF: 10-2 Special Right Triangles						
	OBJ:	10-2.1 To use the properties of 45-45-90 and 30-60-90 triangles						
	STA:	(6)(D) (9)(B) TOP: 10-2 Problem 4 Using the Length of One Side						
	KEY:	special right triangle leg hypotenuse						
5.	ANS:							
	OBJ:	10-2.1 To use the properties of 45-45-90 and 30-60-90 triangles						
		(6)(D) (9)(B) TOP: 10-2 Problem 4 Using the Length of One Side						
	KEY:	special right triangle leg hypotenuse						
6.	ANS:							
	REF:	14-6 Surface Areas and Volumes of Spheres						
	OBJ:	14-6.1 To find the surface area and volume of a sphere $STA: (10)(A) (10)(B) (11)(C) (11)(D)$						
	TOP:	14-6 Problem 3 Finding the Volume of a Sphere						
	KEY:	volume of a sphere sphere volume formulas volume						
7.	ANS:	C PTS: 1 DIF: L3						
		12-4 Angle Measures and Segment Lengths						
		12-4.1 To find measures of angles formed by chords, secants, and tangents						
		(5)(A) (6)(A) (6)(D) (12)(A) TOP: 12-4 Problem 2 Finding Angle Measures						
		circle secant angle measure arc measure intersection outside the circle						
8.	ANS:							
		: 11-4.2 To write the equation of a circle $STA: (2)(B) (12)(E)$						
		11-4 Problem 5 Graphing a Circle Given Its Equation						
_		equation of a circle center radius point on the circle algebra						
9.	ANS:							
		15-1 Experimental and Theoretical Probability						
	OBJ:	15-1.1 To calculate experimental and theoretical probability						
		(13)(C) TOP: 15-1 Problem 3 Using Probabilities of Events and Their Complements						
10		probability theoretical probability complement of an event outcome						
10.	ANS:							
		13-2 Areas of Trapezoids, Rhombuses, and Kites						
		13-2.1 To find the area of a trapezoid, rhombus, or kite $STA: (6)(D) (9)(B) (11)(B)$						
		13-2 Problem 1 Area of a Trapezoid KEY: trapezoid area						
11.	ANS:							
		14-5 Volumes of Pyramids and Cones						
		14-5.1 To find the volume of a pyramid and of a cone $STA: (10)(B) (11)(D)$						
	TOP:	14-5 Problem 3 Finding the Volume of a Cone						

	KEY: volume of a cone volume formulas volume cone	
12.	ANS: C PTS: 1 DIF: L3 REF: 11-2 Radian Measure	
	OBJ: 11-2.1 To use radian measure for angles $STA: (12)(B) (12)(D)$	
	TOP: 11-2 Problem 2 Using Dimensional Analysis	
	KEY: central angle intercepted arc radian	
13.	ANS: D PTS: 1 DIF: L3	
	REF: 10-4 Angles of Elevation and Depression	
	OBJ: 10-4.1 To use angles of elevation and depression to solve problems	
	STA: (9)(A) TOP: 10-4 Problem 3 Using the Angle of Depression	
	KEY: tangent angles of elevation and depression word problem problem solving	
14.	ANS: D PTS: 1 DIF: L4 REF: 9-4 Similarity in Righ	t Triangles
	OBJ: 9-4.1 To find and use relationships in similar right triangles	
	STA: $(7)(B) (8)(A) (8)(B)$ TOP: 9-4 Problem 6 Finding a Distance	
	KEY: corollaries of the geometric mean multi-part question word problem	
15.	ANS: D PTS: 1 DIF: L3 REF: 10-3 Trigonometry	
	OBJ: 10-3.1 To use the sine, cosine, and tangent ratios to determine side lengths and angle met	asures in right
	triangles STA: (9)(A)	
	TOP: 10-3 Problem 2 Using a Trigonometric Ratio to Find Distance	
	KEY: tangent word problem problem solving	
16.	ANS: C PTS: 1 DIF: L4 REF: 12-1 Tangent Lines	
	OBJ: 12-1.1 To use properties of a tangent to a circle $STA: (6)(A) (9)(B) (12)(A)$)
	TOP: 12-1 Problem 1 Finding Angle Measures	
	KEY: properties of tangents tangent to a circle Tangent Theorem	
17.	ANS: B PTS: 1 DIF: L3	
	REF: 14-2 Surface Areas of Prisms and Cylinders	
	OBJ: 14-2.1 To find the surface area of a prism and a cylinder STA: $(10)(B) (11)(C)$	
	TOP: 14-2 Problem 3 Finding Total Surface Area of a Cylinder	
4.0	KEY: surface area of a cylinder cylinder surface area formulas surface area	
18.	ANS: A PTS: 1 DIF: L3	
	REF: 14-3 Surface Areas of Pyramids and Cones	~
	OBJ: 14-3.1 To find the surface area of a pyramid and a cone STA: $(9)(B) (10)(B) (11)(C) (11$))
	TOP: 14-3 Problem 1 Finding the Total Surface Area of a Pyramid	
10	KEY: surface area of a pyramid surface area surface area formulas pyramid	
19.	ANS: C PTS: 1 DIF: L3	
	REF: 10-1 The Pythagorean Theorem and Its Converse OBJ: 10-1.1 To use the Pythagorean Theorem and its converse STA: (6)(D) (9)(B)	
	OBJ: 10-1.1 To use the Pythagorean Theorem and its converse STA: (6)(D) (9)(B) TOP: 10-1 Problem 3 Finding the Length of a Leg	
	KEY: Pythagorean Theorem leg hypotenuse Pythagorean triple	
20.	ANS: A PTS: 1 DIF: L3 REF: 12-1 Tangent Lines	
20.	OBJ: 12-1.1 To use properties of a tangent to a circle STA : $(6)(A) (9)(B) (12)(A)$	`
	TOP: 12-1 Problem 5 Circles Inscribed in Polygons	,
	KEY: properties of tangents tangent to a circle pentagon	
21.	ANS: D PTS: 1 DIF: L3 REF: 8-1 Translations	
21.	OBJ: 8-1.2 To find translation images of figures $STA: (3)(A) (3)(C) (6)(C)$	
	TOP: 8-1 Problem 3 Finding the Image of a Translation	
	KEY: translation transformation image preimage	
22.	ANS: B PTS: 1 DIF: L4 REF: 9-5 Proportions in Tri	angles
	OBJ: 9-5.1 To use the Triangle Proportionality Theorem and the Triangle-Angle-Bisector The	
	STA: $(5)(A) (7)(B) (8)(A)$ TOP: 9-5 Problem 4 Finding a Length	
	KEY: corollary of Side-Splitter Theorem	

23. ANS: C PTS: 1 DIF: L3 **REF: 9-5 Proportions in Triangles** OBJ: 9-5.1 To use the Triangle Proportionality Theorem and the Triangle-Angle-Bisector Theorem STA: (5)(A)|(7)(B)|(8)(A)TOP: 9-5 Problem 5 Using the Triangle-Angle-Bisector Theorem KEY: Triangle-Angle-Bisector Theorem 24. ANS: C PTS: 1 DIF: L4 **REF: 8-1 Translations** OBJ: 8-1.2 To find translation images of figures STA: (3)(A)|(3)(C)|(6)(C)TOP: 8-1 Problem 4 Writing a Rule to Describe a Translation **KEY:** translation 25. ANS: A PTS: 1 DIF: L3 REF: 12-4 Angle Measures and Segment Lengths OBJ: 12-4.2 To find the lengths of segments associated with circles TOP: 12-4 Problem 4 Finding Segment Lengths STA: (5)(A)|(6)(A)|(6)(D)|(12)(A)KEY: circle | chord | intersection inside the circle 26. ANS: C PTS: 1 DIF: L3 REF: 12-4 Angle Measures and Segment Lengths OBJ: 12-4.2 To find the lengths of segments associated with circles TOP: 12-4 Problem 4 Finding Segment Lengths STA: (5)(A)|(6)(A)|(6)(D)|(12)(A)KEY: circle | intersection outside the circle | secant 27. ANS: B PTS: 1 DIF: L2 REF: 12-2 Chords and Arcs OBJ: 12-2.1 To use congruent chords, arcs, central angles, and perpendicular bisectors to chords STA: (5)(A)|(5)(C)|(6)(A)|(9)(B)|(12)(A)TOP: 12-2 Problem 4 Using Diameters and Chords KEY: bisected chords | circle | perpendicular | perpendicular bisector | Pythagorean Theorem | chord 28. ANS: A PTS: 1 DIF: L3 REF: 12-3 Inscribed Angles OBJ: 12-3.1 To find the measure of an inscribed angle STA: (5)(A) (12)(A) TOP: 12-3 Problem 1 Using the Inscribed Angle Theorem KEY: circle | inscribed angle | intercepted arc | inscribed angle-arc relationship 29. ANS: D PTS: 1 DIF: L3 REF: 13-4 Perimeters and Areas of Similar Figures OBJ: 13-4.1 To find the perimeters and areas of similar polygons STA: (10)(B)|(11)(A) TOP: 13-4 Problem 2 Finding Ratios in Similar Figures KEY: perimeter | area | similar figures 30. ANS: A PTS: 1 DIF: L4 **REF: 8-2 Reflections** OBJ: 8-2.1 To find reflection images of figures STA: (3)(A)|(3)(C)TOP: 8-2 Problem 1 Reflecting a Point Across a Line KEY: reflection | line of reflection 31. ANS: D PTS: 1 DIF: L2 REF: 15-1 Experimental and Theoretical Probability OBJ: 15-1.1 To calculate experimental and theoretical probability TOP: 15-1 Problem 2 Calculating Theoretical Probability STA: (13)(C) KEY: theoretical probability | probability | outcome | event 32. ANS: C PTS: 1 DIF: L3 **REF: 9-4 Similarity in Right Triangles** OBJ: 9-4.1 To find and use relationships in similar right triangles STA: (7)(B)|(8)(A)|(8)(B)TOP: 9-4 Problem 2 Identifying Similar Triangles KEY: similar triangles | altitude 33. ANS: A PTS: 1 **REF: 9-4 Similarity in Right Triangles** DIF: L3 OBJ: 9-4.1 To find and use relationships in similar right triangles TOP: 9-4 Problem 2 Identifying Similar Triangles STA: (7)(B)|(8)(A)|(8)(B)KEY: similar triangles | altitude 34. ANS: B PTS: 1 DIF: L3 **REF: 8-3 Rotations** OBJ: 8-3.1 To draw and identify rotation images of figures STA: (3)(A)|(3)(C)|(6)(C)

		-3 Problem 2						
25		otation cente						
35.	ANS: B		PTS: 1		DIF:			
		3-4 Perimeter			•			
			-			imilar polygon		ng Aroos Using Similar Figures
	STA: (10)(B) (11)(A)TOP: 13-4 Problem 3 Finding Areas Using Similar FiguresKEY: similar figures area trapezoid					ng Areas Osing Sinnia Figures		
26	ANS: A	-	PTS: 1	-	DIF:	1.2	DEE.	10-3 Trigonometry
50.								
	OBJ: 10-3.1 To use the sine, cosine, and tangent ratios to determine side lengths and angle measures in right triangles STA: (9)(A)							
	TOP: 10-3 Problem 2 Using a Trigonometric Ratio to Find Distance							
	KEY: ta			8				
37.	ANS: A	•	PTS: 1		DIF:	L3	REF:	12-1 Tangent Lines
	OBJ: 1	2-1.1 To use	properties	of a tangent	to a cit	rcle		(6)(A) (9)(B) (12)(A)
	TOP: 1	2-1 Problem	1 Finding	Angle Meas	ures			
	KEY: ta	angent to a cir		of tangency	prope	erties of tanger	nts cent	tral angle
38.	ANS: D		PTS: 1		DIF:			9-5 Proportions in Triangles
	OBJ: 9-5.1 To use the Triangle Proportionality Theorem and the Triangle-Angle-Bisector Theorem							0
	STA:(5)(A) (7)(B) (8)(A)TOP:9-5 Problem 4 Finding a LengthKEY:corollary of Side-Splitter Theorem						g a Length	
20		•	-		DIE	1.2	DEE	11.2 A
39.			PTS: 1		DIF:	L3 and segments c		11-3 Areas of Circles and Sectors
						•		
	STA: $(9)(B) (11)(B) (12)(C)$ TOP: 11-3 Problem 3 Finding the Area of a Segment of a Circle KEY: sector circle area central angle							
40.	ANS: D		PTS: 1	-	DIF:	L3	REF:	9-4 Similarity in Right Triangles
						r right triangle		,
		7)(B) (8)(A)						the Corollaries
		orollaries of t					Ū.	
41.	ANS: B	3	PTS: 1		DIF:	L3	REF:	13-3 Areas of Regular Polygons
		3-3.1 To find		• •	•••		STA:	(9)(B) (11)(A)
		3-3 Problem						
		egular polygo				-		
42.	ANS: D		PTS: 1		DIF:			9-5 Proportions in Triangles
	OBJ: 9	-5.1 I o use the formula $(7)(D)$	e I riangle	e Proportion	ality If	0.5 Drahlers 2	e Iriang	le-Angle-Bisector Theorem
	Theorem		(ð)(A)		TOP:	9-5 Problem 3	5 Using	the Triangle Proportionality
		ide-Splitter T	heorem					
43	ANS: B	-	PTS: 1		DIF:	13	REF	10-3 Trigonometry
15.								e lengths and angle measures in right
	triangles		STA: (9)					ng Trigonometric Ratios
		osine sine						
44.	ANS: C		PTS: 1		DIF:	L4	REF:	9-1 Similar Polygons
	OBJ: 9	-1.1 To identi	ify and app	ply similar p	olygon	S		STA: (7)(B)
	TOP: 9	-1 Problem 2	Determin	ing Similarit	у		KEY:	similar polygons scale factor
45.	ANS: D		PTS: 1		DIF:		REF:	9-1 Similar Polygons
		-1.1 To identi			•••	S		STA: (7)(B)
		-1 Problem 2		÷	•	1.	1	1. Cristian
10						esponding ang		
40.	ANS: C	-1.1 To identi	PTS: 1		DIF:		KEF:	9-1 Similar Polygons STA: (7)(B)
	0DJ. 9		iry and ap	pry sinnar p	orygon	3		SIA. (I)(D)

	TOP:	9-1 Problem 2 Determining Similarity				
	KEY:	similar polygons corresponding sides corre	esponding angl	les sca	le factor	
47.	ANS:	B PTS: 1 DIF:	L3	REF:	11-1 Circles and Arcs	
	OBJ:	11-1.2 To find the circumference and arc len	gth	STA:	(10)(B) (12)(B)	
	TOP:	11-1 Problem 4 Finding Arc Length		KEY:	arc circumference	
48.	ANS:	A PTS: 1 DIF:	L4	REF:	8-2 Reflections	
	OBJ:	8-2.1 To find reflection images of figures		STA:	(3)(A) (3)(C)	
		8-2 Problem 1 Reflecting a Point Across a L			reflection line of reflection	
49.		-			10-2 Special Right Triangles	
	OBJ:	10-2.1 To use the properties of 45-45-90 and				
					ng the Length of the Hypotenuse	
		special right triangle hypotenuse				
50.	ANS:		L3	REF:	13-5 Trigonometry and Area	
	OBJ:	13-5.1 To find areas of regular polygons and				
					roblem 3 Finding Area	
		area of a triangle area sine			-	
51.	ANS:		L3	REF:	11-2 Radian Measure	
	OBJ:	11-2.1 To use radian measure for angles		STA:	(12)(B) (12)(D)	
		11-2 Problem 2 Using Dimensional Analysis	5			
	KEY:	central angle intercepted arc radian				
52.			L4	REF:	11-4 Circles in the Coordinate Plane	
	OBJ:	11-4.1 To find the center and radius of a circ	le	STA:	(2)(B) (12)(E)	
	TOP:	11-4 Problem 3 Writing the Equation of a Ci	rcle			
	KEY:	Y: center circle coordinate plane radius equation of a circle word problem				
53.	ANS:	B PTS: 1 DIF:	L3			
	REF:	8-5 Compositions of Rigid Transformations				
	OBJ:	8-5.1 To find compositions of rigid transform				
			8-5 Problem 3	Findin	g a Glide Reflection Image	
		isometry glide reflection				
54.	ANS:					
		14-1 Three-Dimensional Figures and Cross S				
		14-1.2 To visualize cross sections of space fi	-		(10)(A)	
		14-1 Problem 3 Describing a Cross Section			cross section word problem	
55.	ANS:				11-2 Radian Measure	
		11-2.2 To find the length of an arc of a circle		STA:	(12)(B) (12)(D)	
		11-2 Problem 3 Finding the Length of an Ar	0			
		central angle intercepted arc radian				
56.	ANS:				11-1 Circles and Arcs	
		11-1.1 To find the measures of central angle			(10)(B) (12)(B)	
		11-1 Problem 2 Finding the Measures of Arc			major arc measure of an arc arc	
57.					9-5 Proportions in Triangles	
		9-5.1 To use the Triangle Proportionality Th				
			9-5 Problem 3	Using	the Triangle Proportionality	
	Theore					
5 0		Side-Splitter Theorem	та	DEE	0.4.C. 1 D. 1. T. 1	
58.					9-4 Similarity in Right Triangles	
		9-4.1 To find and use relationships in similar $(7)(P)$ (8)(A) (8)(P)			a the Geometrie Mean	
	SIA:	(7)(B) (8)(A) (8)(B) TOP:	7-4 FIODIeIII 3	1. maiu	g the Geometric Mean	
		geometric mean proportion				
50		geometric mean proportion D PTS: 1 DIF:	13	DEE.	10-3 Trigonometry	

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65. ANS:

x = -8

PTS: 1