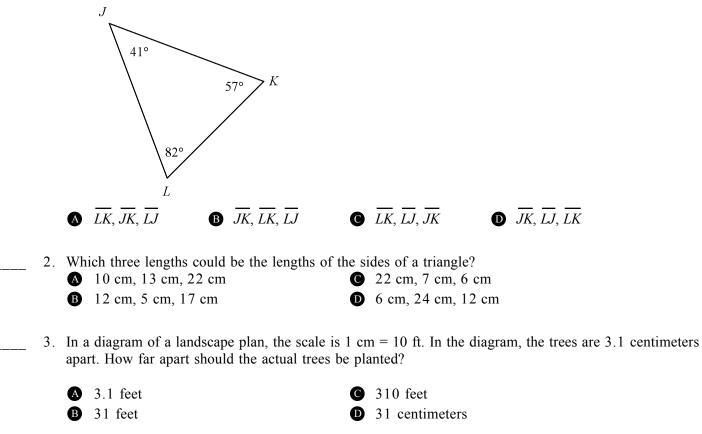
Name:	Block:	Date:	ID: A

Geometry CP Review for Final 2016

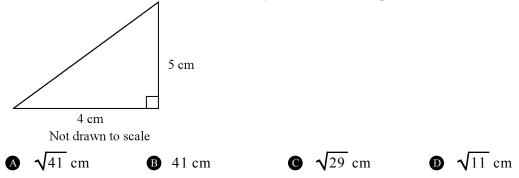
Multiple Choice

Identify the choice that best completes the statement or answers the question.

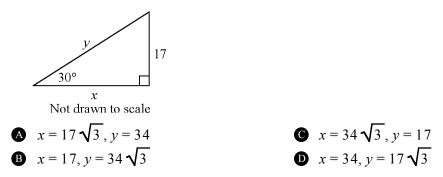
1. List the sides in order from shortest to longest. The diagram is not to scale.



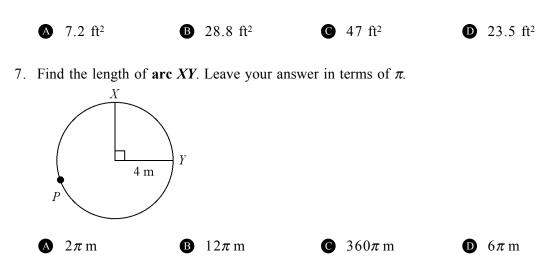
4. Find the length of the missing side. Leave your answer in simplest radical form.



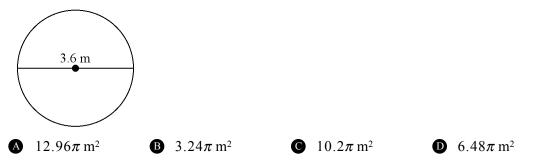
5. Find the value of the variable(s). If your answer is not an integer, leave it in simplest radical form.

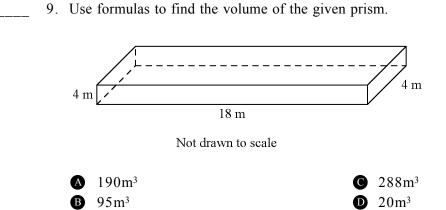


6. A kite has diagonals 9.4 ft and 5 ft. What is the area of the kite?

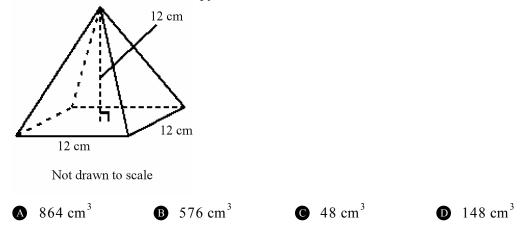


8. Find the area of the circle with a diameter of 3.6 meters. Leave your answer in terms of π .

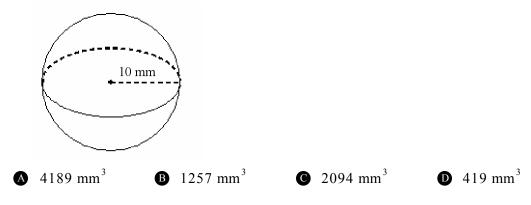


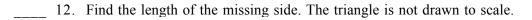


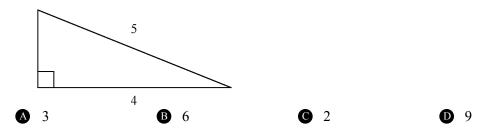
_____ 10. Find the volume of the square pyramid shown. Round to the nearest tenth as necessary.



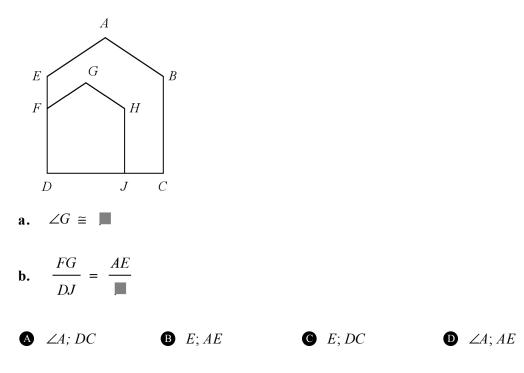
_ 11. Find the volume of the sphere shown. Round your answer to the nearest cubic unit.



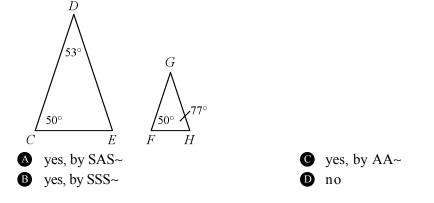




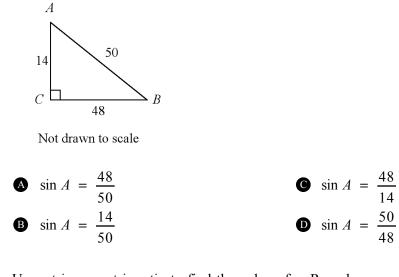
13. ABCDE ~ GHJDF. Complete the statements.



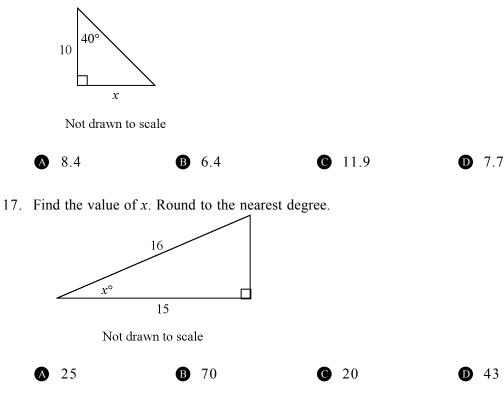
14. Are the two triangles similar? How do you know?



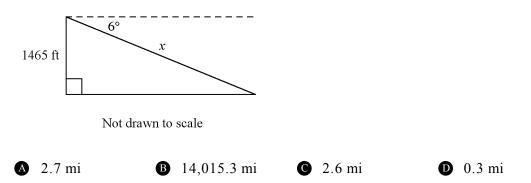
____ 15. Write the ratio for sin A.



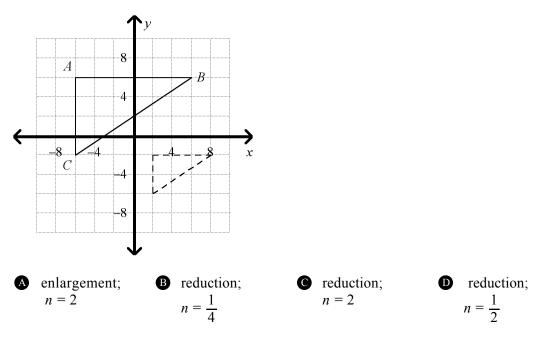
____ 16. Use a trigonometric ratio to find the value of x. Round your answer to the nearest tenth.

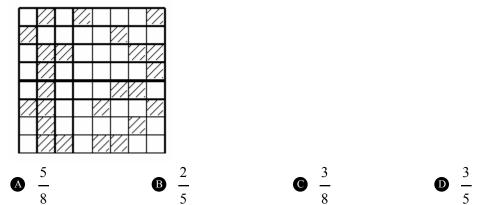


18. To approach the runway, a pilot of a small plane must begin a 6° descent starting from a height of 1465 feet above the ground. To the nearest tenth of a mile, how many miles from the runway is the airplane at the start of this approach?



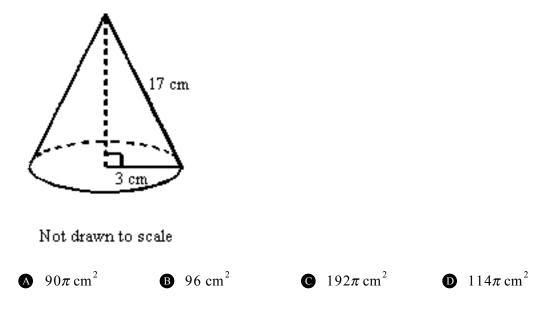
19. The dashed-lined figure is a dilation image of $\triangle ABC$ with center of dilation P (not shown). Is $D_{(n,P)}$ an enlargement, or a reduction? What is the scale factor n of the dilation?



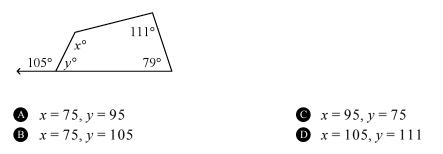


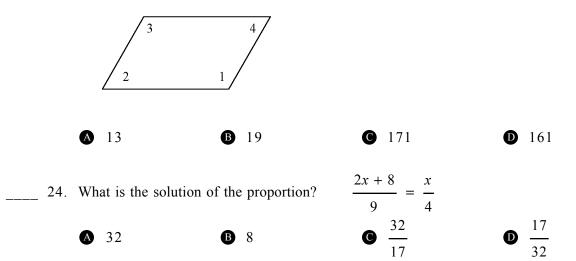
20. What is the probability that a point chosen at random on the grid will lie in the shaded region?

21. Find the surface area of the cone in terms of π .



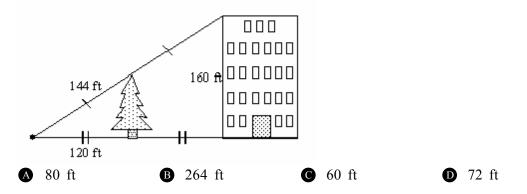
22. Find the missing values of the variables. The diagram is not to scale.



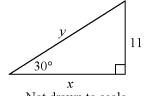


23. For the parallelogram, if $m \angle 2 = 3x - 20$ and $m \angle 4 = 2x - 7$, find $m \angle 1$. The diagram is not to scale.

____25. Use the information in the diagram to determine the height of the tree to the nearest foot.



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



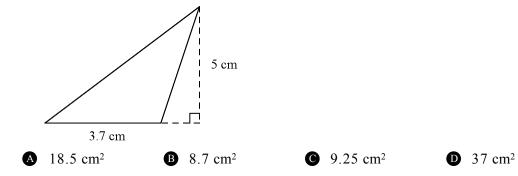
Not drawn to scale

A $x = 22\sqrt{3}, y = 11$ B $x = 11\sqrt{3}, y = 22$

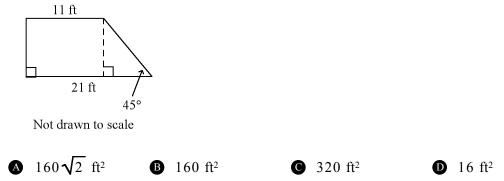
•
$$x = 22, y = 11\sqrt{3}$$

• $x = 11, y = 22\sqrt{3}$

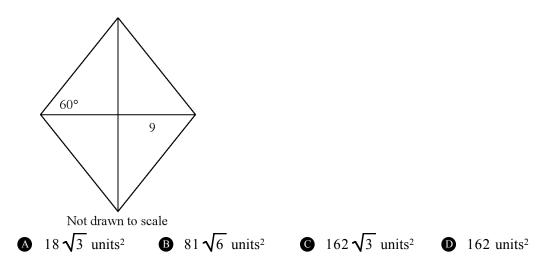
____ 27. Find the area. The figure is not drawn to scale.



28. Find the area of the trapezoid. Leave your answer in simplest radical form.



_ 29. Find the area of the rhombus. Leave your answer in simplest radical form.



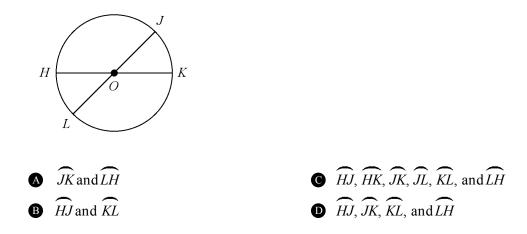
30. Find the circumference. Leave your answer in terms of π . 16 in. **B** 256π in. **D** 32π in. 48π in. 16π in. Α (\mathbf{C}) 31. Write the ratios for $\cos A$. A 17 8 CB 15 Not drawn to scale $\cos A = \frac{15}{17}$ **C** $\cos A = \frac{8}{17}$ **D** $\cos A = \frac{8}{17}$ **B** $\cos A = \frac{8}{15}$ 32. Find the area. The figure is not drawn to scale. 3 in. 11 in. 9 in 9 in 8 in.

> **A** 188 in.² **B** 278 in.² **C** 322 in.^2 **D** none of these

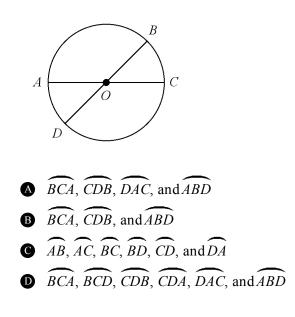
11 in

33. A parallelogram has sides measuring 23.8 m and 35.3 m. The height corresponding to the 23.8-m base is 9.9 m. Find the height, to the nearest tenth of a meter, corresponding to the 35.3-m base. A 8317.4 m **B** 14.7 m **C** 6.7 m **D** none of these

 $_$ 34. What are the minor arcs of $\bigcirc O?$



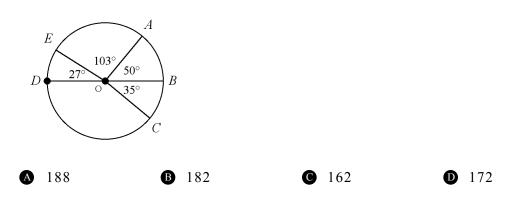
 $_$ 35. What are the major arcs of $\bigcirc O$ that contain point B?



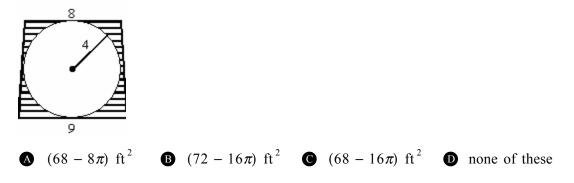
_ 36. Name the major arc and find its measure.



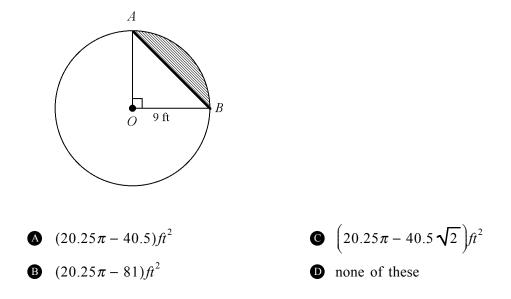
____ 37. Find the measure of *CDE*. The figure is not drawn to scale.

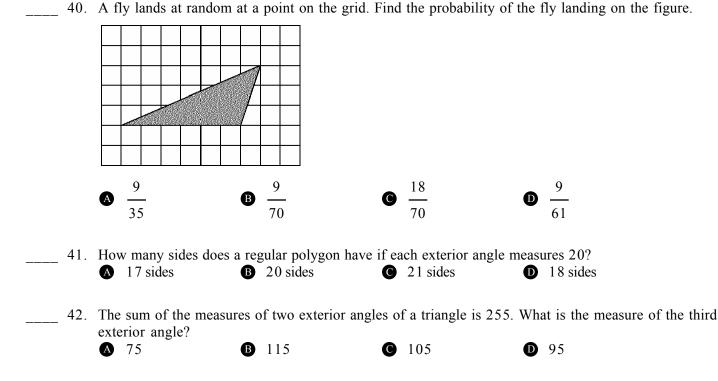


38. Find the area of the shaded portion of the figure. Dimensions are in feet. Leave your answer in terms of π . The figure is not drawn to scale.



39. The area of sector AOB is $20.25\pi ft^2$. Find the exact area of the shaded region.





Short Answer

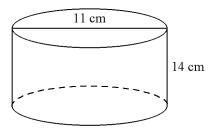
43. A triangle has side lengths of 11 cm, 48 cm, and 50 cm. Classify it as acute, obtuse, or right. Show your work or explain your answer.

Circle one: ACUTE OBTUSE RIGHT

Work/Explanation:

13

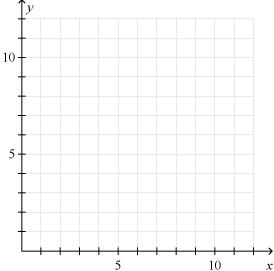
44. Use formulas to find the surface area and volume of the given cylinder. Leave your answers in terms of π .



Not drawn to scale

Surface Area _____ Volume _____

45. In the coordinate plane, draw quadrilateral ABCD with A(4, 3), B(4, 9), C(9, 9), and D(9, 3).



- b. Find the length of AC. Round your answer to the nearest tenth.
- c. State the most precise name of the quadrilateral.
- 46. Find the measures of an interior angle and an exterior angle of a regular polygon with 6 sides.

Geometry CP Review for Final 2016 Answer Section

MULTIPLE CHOICE

1.	ANS:	С	DIF:	L2	TOP:	5-5 Example 3
2.	ANS:	А	DIF:	L2	TOP:	5-5 Example 4
3.	ANS:	В	DIF:	L3		7-2 Problem 5 Use a Scale Drawing
4.	ANS:	А	DIF:	L2		8-1 Example 2
5.	ANS:	А	DIF:	L2		8-2 Example 4
6.	ANS:	D	DIF:	L2	TOP:	10-2 Example 3
7.	ANS:	D	DIF:	L2		10-6 Example 5
8.	ANS:	В	DIF:	L2		10-7 Example 1
9.	ANS:	С	DIF:	L2	TOP:	11-2 Example 2
10.	ANS:	В	DIF:	L2	TOP:	11-5 Example 1
11.	ANS:	А	DIF:	L2	TOP:	11-6 Example 3
12.	ANS:	А	DIF:	L2	TOP:	8-1 Example 1
13.	ANS:	А	DIF:	L3	TOP:	7-2 Problem 1 Understanding Similarity
14.	ANS:	С	DIF:	L3		7-3 Problem 1 Using the AA Postulate
15.	ANS:	А	DIF:	L2	TOP:	8-3 Problem 1 Writing Trigonometric Ratios
16.	ANS:	А	DIF:	L2		
	TOP:	8-3	Problem 2 Using	g a Trigonom	netric Rat	tio to Find Distance
17.	ANS:	С	DIF:	L3	TOP:	8-3 Problem 3 Using Inverses
18.	ANS:	А	DIF:	L3	TOP:	8-4 Problem 3 Using the Angle of Depression
19.	ANS:	D	DIF:	L3	TOP:	9-6 Problem 1 Finding a Scale Factor
20.	ANS:	С	DIF:	L2	TOP:	10-8 Problem 3 Using Area to Find Probability
21.	ANS:	D	DIF:	L3	TOP:	11-3 Problem 3 Finding the Surface Area of a Cone
22.	ANS:	С	DIF:	L3	TOP:	6-1 Problem 3 Using the Polygon Angle-Sum Theorem
23.	ANS:	D	DIF:	L4	TOP:	6-2 Problem 1 Using Consecutive Angles
24.	ANS:	А	DIF:	L4	TOP:	7-1 Problem 4 Solving a Proportion
25.	ANS:	А	DIF:	L3	TOP:	7-3 Problem 4 Finding Lengths in Similar Triangles
26.	ANS:	В	DIF:	L3	TOP:	8-2 Problem 4 Using the Length of One Side
27.	ANS:	С	DIF:	L3	TOP:	10-1 Problem 3 Finding the Area of a Triangle
28.	ANS:	В	DIF:	L3	TOP:	10-2 Problem 2 Finding Area Using a Right Triangle
29.	ANS:	С	DIF:	L3	TOP:	10-2 Problem 4 Finding the Area of a Rhombus
30.	ANS:	D	DIF:	L2	TOP:	10-6 Problem 3 Finding a Distance
31.	ANS:	С	DIF:	L2	TOP:	8-3 Problem 1 Writing Trigonometric Ratios
32.	ANS:	В	DIF:	L4	TOP:	10-1 Problem 4 Finding the Area of an Irregular Figure
33.	ANS:	С	DIF:	L3	TOP:	10-1 Problem 2 Finding a Missing Dimension
34.	ANS:	D	DIF:	L3		10-6 Problem 1 Naming Arcs
35.	ANS:	А	DIF:	L3		10-6 Problem 1 Naming Arcs
36.	ANS:	С	DIF:	L3	TOP:	10-6 Problem 2 Finding the Measures of Arcs
	ANS:		DIF:	L3		10-6 Problem 2 Finding the Measures of Arcs
	ANS:		DIF:			10-7 Problem 1 Finding the Area of a Circle
						-

39.	ANS:	А	DIF:	L2			
	TOP:	10-7 Problem	3 Find	ling the Area c	of a Seg	ment of a Circle	
40.	ANS:	В	DIF:	L3	TOP:	10-8 Problem 3	Using Area to Find Probability
41.	ANS:	D	DIF:	L2	TOP:	3-5 Example 3	
42.	ANS:	С	DIF:	L2			

SHORT ANSWER

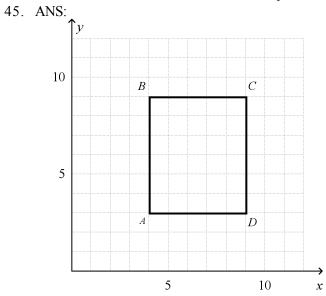
43. ANS: right (2 points answer, 2 points explanation/work)

DIF: L2 T	OP: 8-1 Example 5
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44. ANS:

 214.5π cm²

DIF: L2 TOP: 11-2 Example 3



The length of AC is 7.8.

Rectangle

DIF: L4 TOP: 6-7 Problem 2 Classifying a Parallelogram

46. ANS:

 $m \angle$ (interior) = 120 $m \angle$ (exterior) = 60

DIF: L2