Geometry Word Problems

is the length of the field?

a. 1,932 yd

Name:		
name.		

The geometry problems in this set involve lines, angles, triangles, rectangles, squares, and circles. You will learn how to find length, perimeter, area, circumference, and volume, and how you can apply geometry to everyday problems.

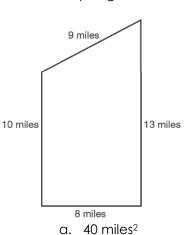
1.	A water sprinkler sprays in a circular pattern a distance of 10 ft. What is the circumference of the $(\pi = 3.14)$						e spray?
	a. 31.4 ft	b.	314 ft	C.	62.8 ft	d.	628 ft
2.	If a triangular sail has a vertical a. 1,660 ft ²	_	ht of 83 ft and horizontal 1,155 ft²	length c. 20			he sail? 320 ft²
3.	What is the volume of a ball wh a. 201 in ³		radius is 4 inches? Round 268 in ³		e nearest inch. (π = 3.14) 804 in ³	d.	33 in ³
4.	If a tabletop has a diameter of a. 1,384 in ²		n, what is its surface area 1,319 in ²		•	d.	5,539 in ²
5.	An orange has a radius of 1.5 in a. 9.42 in ³		s. Find the volume of one 113.04 in ³		- ,	d.	14.13 in ³
6.	A fire and rescue squad places base of the building, how far up a. 8 ft	the		each			the
7.	Safe deposit boxes are rented of volume of the box?	at th	e bank. The dimensions c	of a bo	ox are 22 in by 5 in by 5 in.	Wh	at is the
	a. 220 in ³	b.	550 in ³	C.	490 in ³	d.	360 in ³
8.	**How many degrees does a mi a. 25°		e hand move in 25 minute 150°		60°	d.	175°
9.	Two planes leave the airport at and plane B is 168 miles due ea a. 182 miles	st of		rt are	the two airplanes?		e airport 8 miles
10.	If the area of a small pizza is 78 boxes are measured according			ıld bes	st fit the small pizza? (Note	: Piz	za
	a. 12 in		11 in	C.	9 in	d.	10 in
11.	A rectangular field is to be fenc	ed i	n completely. The width i	s 28 yc	d and the total area is 1,90	30 y	d². What

b. 70 yd

c. 31 yd

d. 473 yd

12. Stuckeyburg is a small town in rural America. Use the map to approximate the area of the town.



b. 104 miles²
c. 93.5 miles²

d. 92 miles²

13. A circular print is being matted in a square frame. If the frame is 18 in by 18 in, and the radius of the print

a. 477.86 in²

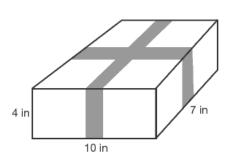
is 7 in, what is the area of the matting? ($\pi = 3.14$)

b. 170.14 in²

c. 280.04 in²

d. 288 in²

14. **Ribbon is wrapped around a rectangular box that is 10 in by 8 in by 4 in. Using the illustration provided, determine how much ribbon is needed to wrap the box. Assume the amount of ribbon does not include a knot or bow.



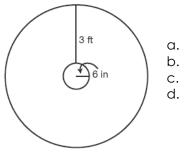
a. 50 in

b. 42 in

c. 22 in

d. 280 in

15. *Pat is making a Christmas tree skirt. She needs to know how much fabric to buy. Using the illustration provided, determine the area of the skirt to the nearest foot.



a. 37.7 ft²

 $b.\ \ 27\ ft^2$

c. $75 ft^2$

d. 38 ft²