MA065 Final Exam

Name:	
Data	

b. 122.46 cm^2

d. 279.46 cm^2

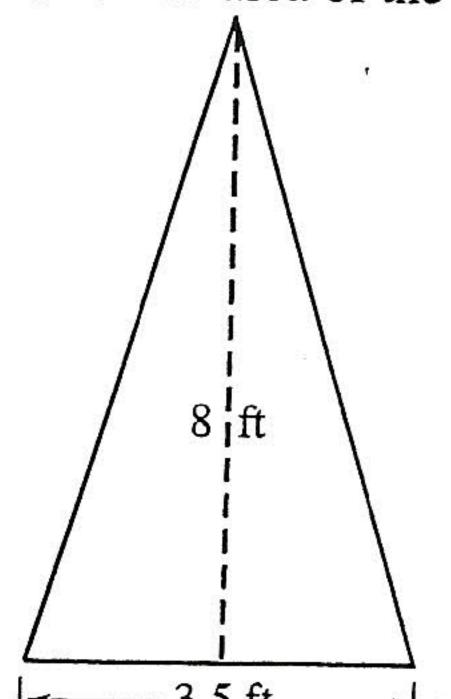
1.	A triangle	le has sides that measure	30 i	n, 19 ft, and 7 yd. Find	the p	perimeter or distance as	round	the triangle
	a .	. 23.83 ft	b.	42.5 ft	c.	28.5 ft	d.	56 ft
2.	Convert	167°F to a reading on the	e Ce	sius scale.				ž:
	a.	135°C	b.	3.33°C	c.	75°C	d.	23.89°C
3.	A cyclist	was traveling at a rate o	f 15	miles per hour. Find the	e rate	e in feet per minute.		
	a.	1,320 ft / min	b.	21,120 ft / min	c.	88 ft / min	d.	352 ft / min
4.	Convert:	98 lb = kg						45
	a.	215.6	b.	6.125	c.	215.86	d.	44.9
5.	Convert:	23 gallons =	quar	ts				
	a.	92	b.	12.5	c.	46	d.	5.75
6.	Convert:	55 inches = c	cm					
類	a.	165	b.	139.7	c.	21.67	d.	660
7.	Convert:	1658 cm = m				FR		
	a.	16.58	b.	165.8	c.	1.658	d.	0.1658
8.	Find the v	olume of a pyramid with	h hei	ght 20 m and with a rec	tang	ular base that measures	25 m	by 36 m.
	a.	$18,000 \text{ m}^3$	b.	$4,500 \text{ m}^3$	c.	$6,000 \text{ m}^3$	d.	$9,000 \text{ m}^3$
								~ ~
9.	Find the p	erimeter of a parallelogi	ram v	with sides measuring 13.	.2 cn	n and 5.2 cm.		
	a.	18.4 cm	b.	68.64 cm	c.	32.6 cm	d.	36.8 cm
	ww.ix					<u>.</u> .		
10.	Find the a	rea of the shaded region	in th	e figure below.				S
		Radius of outer circ	cle is 8	$a. 200.96 \text{ cm}^2$	2	b. 12	2.46	cm ²

c. 78.5 cm^2

Radius of outer circle is 8 cm

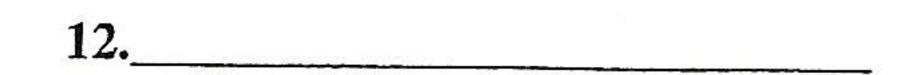
Radius of inner circle is 5 cm

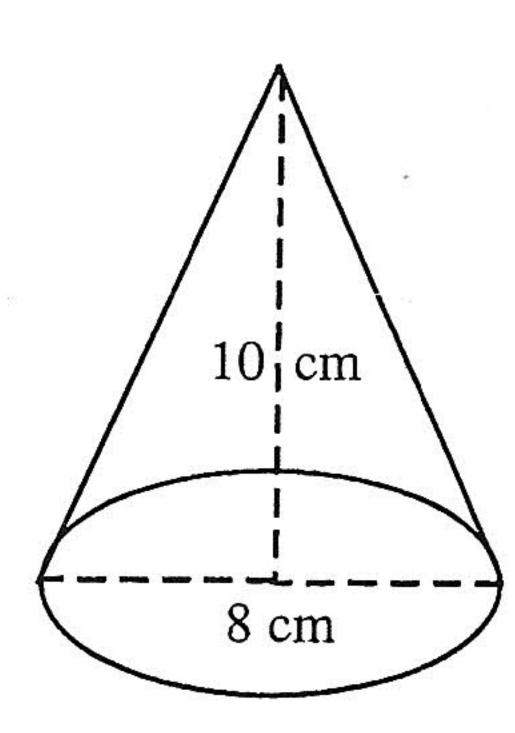
11. Find the area of the triangle.



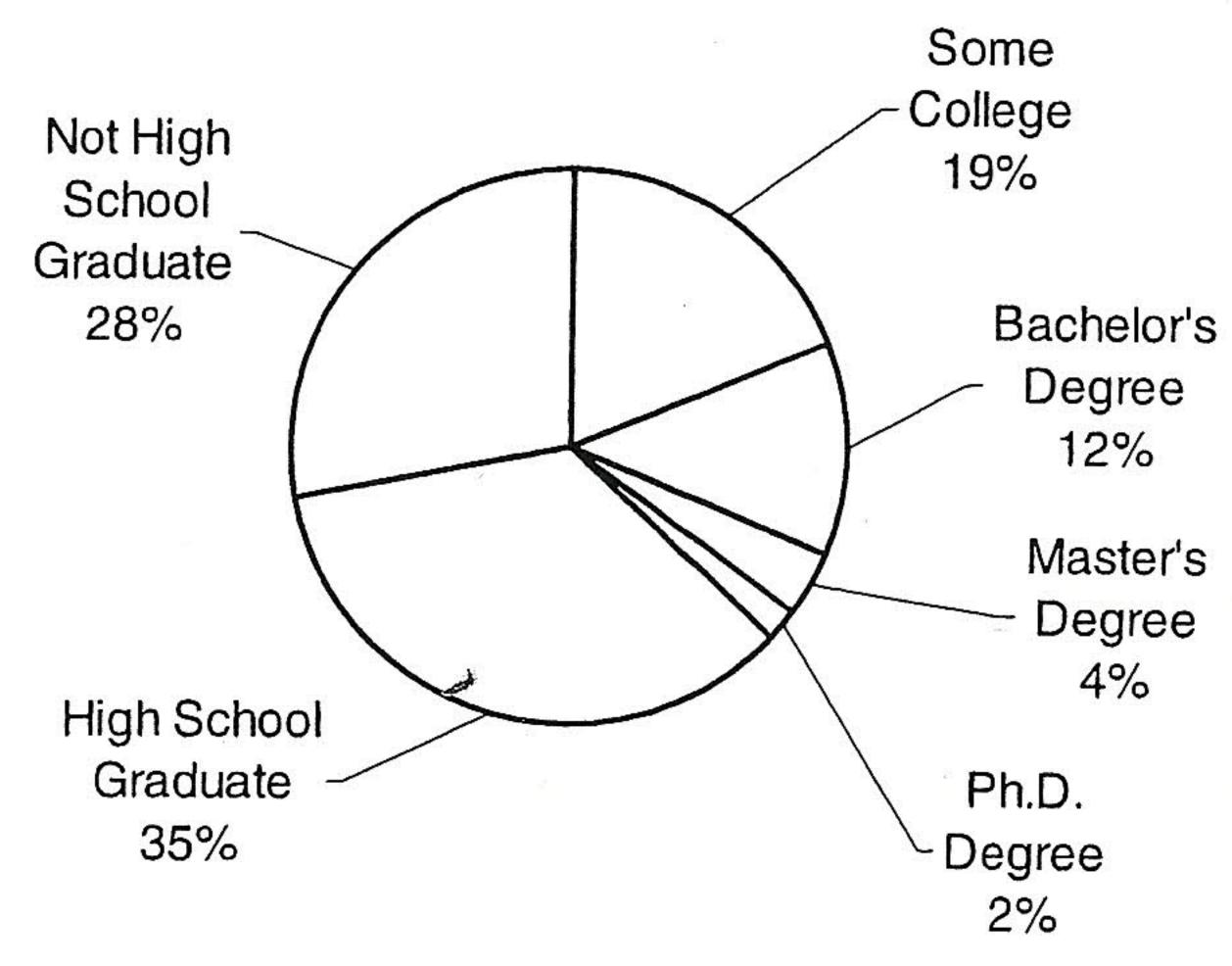
11._____

12. Find the volume of the cone. Round to the nearest hundredth.





The circle graph below shows the highest degree earned by people aged 25 years and older who live in a Midwestern town. Use the circle graph to answer questions 13 - 15.



13. What percent of the population holds the highest degree of Ph.D. or Master's Degree?

13.____

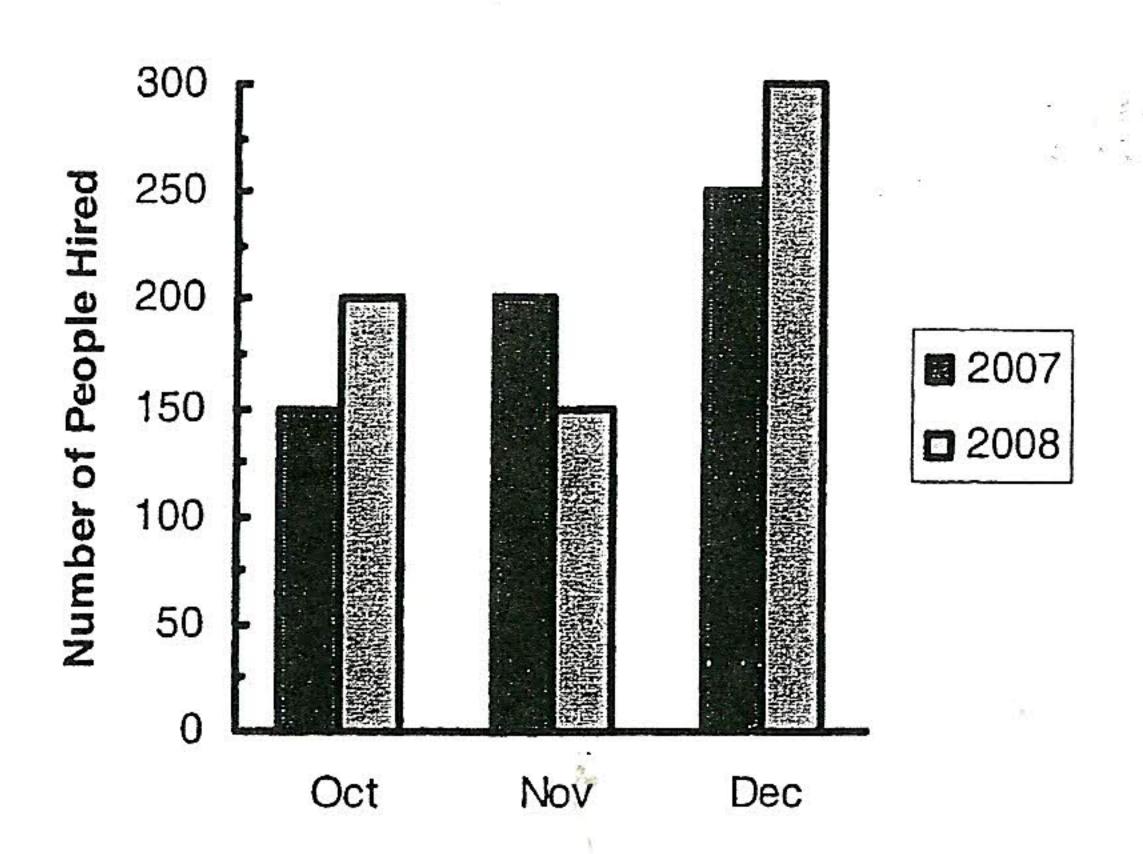
14. If 6,000 people of age 25 or older hold the Bachelor's degree as their highest degree, how many people of age 25 or older live in the town?

14.____

15. What percent of the population have no degrees at all?

15._____

The following double bar graph indicates the number of people hired to help out with Christmas sales in one city in 2007 and 2008. Use the bar graph to answer questions 16 - 18.



	16.	During	which	month	and	year	were	the	most	peop	ole	hirec	17
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16.	 		
	 4 (

These were the daily low temperatures in degrees Fahrenheit for the first week of spring in Barrow, Alaska, one year: 10°, 5°, 6°, 13°, 4°, 11°, 22°

19. Find the mean low temperature for the week. Round to the nearest tenth, if necessary.

2007			

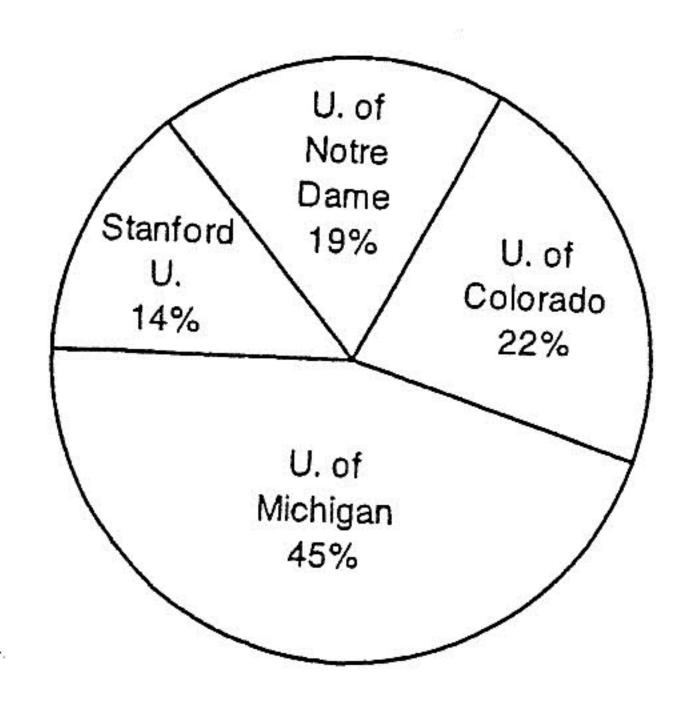
20. Find the median low temperature for the week.

- 21. The circle graph indicates the results of asking 400 people which of these four football teams they like best this year. How many people do not like Stanford?
- a. 56

b. 344

c. 14

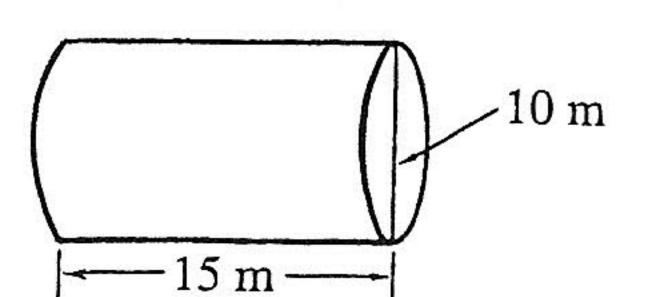
d. 86



T-137

- 22. What is the area of a rhombus whose height is 7 cm and whose parallel sides are 15 cm and 17 cm?
 - a. 892.5 cm^2
- **b.** 112 cm^2
- c. 153 cm^2
- **d.** $1,785 \text{ cm}^2$

23. Find the volume of the circular cylinder below.



23. _____

- 24. Find the length of the hypotenuse of a right triangle whose legs are 15 cm and 20 cm.
- 24.

- 25. Simplify: (13)(-4)(-6)
 - a. 3

- **b.** 312
- c. -312
- **d.** -54

- 26. Simplify: -13-(-2)
 - **a.** −26
- **b.** -11
- **c.** 15
- **d.** 26

- 27. Simplify: $\frac{-20 + (-3)}{(-3) \div (-1)}$
 - a. $\frac{17}{3}$
- **b.** $-\frac{17}{3}$
- c. $-\frac{23}{3}$
- **d.** −30.5

- 28. Evaluate exactly: $\sqrt{100} \sqrt{64}$
 - a. 1

b. 2

c. :

d. 4

- 29. Evaluate: $-63 \div 7$
- a. -8
- h _0
- c. 441
- d. 9

- 30. Evaluate: $\frac{-\frac{4}{7}}{-\frac{7}{11}}$
 - a. $-1\frac{1}{14}$
- **b.** $\frac{44}{49}$
- c. $-\frac{28}{77}$
- **d.** $-\frac{15}{49}$

- 31. Evaluate: $(6)(-4)(2)(-1)(-\frac{1}{6})$
 - a. -8
- **b.** -12
- c. 12
- **d.** 8

- 32. Evaluate: $\frac{112}{-7}$
 - a. 42
- b. 14
- $c_{*} = -105$
- d -16

33. Simplify: -7(x-y-2z)

a.
$$-7z - 7y - 14z$$

c.
$$-7x + 7y + 14z$$

34. Simplify: (2.4)(a-0.2b+3.5c)

a.
$$2.4a + 2.2b + 5.9c$$

35. c.
$$2.4a - 4.8b + 84c$$

Solve: 25 - 5x = 80

a. 21

b. $\frac{8}{3}$

b.
$$-7x + 7y - 14z$$

d.
$$7x - 7y - 14z$$

b. 2.4a - 4.8b + 8.4c

d. 2.4a - 0.48b + 8.4c

c. -11

d

Extra Credit

1. Solve: 2(7-x)=3(x+3)

a. -]

b. 1

c. $\frac{23}{5}$

d. 5

2. Solve: -x-7 = -2x-11

a. −4

b. 4

c. 14

d. –14

3. 7-5(2-x)=-(x-8)

a. $\frac{5}{4}$

b. $\frac{7}{2}$

c. –4

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

4. Solve: 5(x+9)-23=42

a. 4

b. 5

c 1

d. 16

5. Solve: 3x + 31 = x - 25

a. 28

b. -28

c 12

d 16

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