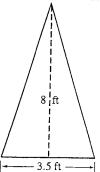
## MA065 Name:\_ Date:\_\_\_

Name:	<del></del>	 	 
Date:			

1.	A triangle feet.	has sides that measure	30 iı	n, 19 ft, and 7 yd. F	ind the p	perimeter or dis	tance	around	the triangle in		
	a.	23.83 ft	b.	42.5 ft	c.	28.5 ft		d.	56 ft		
2.	. Convert 167°F to a reading on the Celsius scale.										
	a.	135°C	b.	3.33°C	c.	75°C		ď.	23.89°C		
3.	3. A cyclist was traveling at a rate of 15 miles per hour. Find the rate 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									
,	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: 5	55 inches = c	m								
	a.	165	b.	139.7	c.	21.67		d.	660		
7.	Convert: 1	.658 cm = m									
	a.	16.58	b.	165.8	c.	1.658		d.	0.1658		
•	TD: 1.1	1		1.20		-					
8.	a.	olume of a pyramid with 18,000 m <sup>3</sup>		ght 20 m and with a $4,500 \text{ m}^3$		ular base that n 6,000 m <sup>3</sup>	neasu		by 36 m. 9,000 m <sup>3</sup>		
	<b></b>	3	υ.	1,500 M	c.	0,000 m		u. 	9,000 m		
9.	Find the pe	rimeter of a parallelogr	am v	with sides measuring	g 13.2 cm	n and 5.2 cm.					
	a.	18.4 cm	b.	68.64 cm	c.	32.6 cm		d.	36.8 cm		
	,	77		7 - 1 <sup>-1</sup>		4.			* 1		
10.	Find the ar	ea of the shaded region	in th	e figure below.							
		Radius of outer circ			cm <sup>2</sup>		b.	122.46 d	em²		
				c. 78.5 cm	$n^2$			279.46			
		Radius of inner circ	ie is 5	cm							

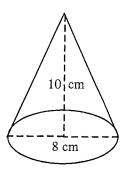
11. Find the area of the triangle.



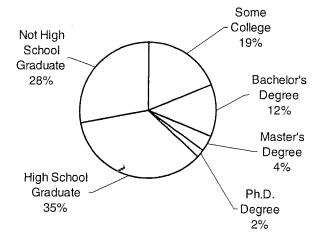
11.\_\_\_\_\_

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





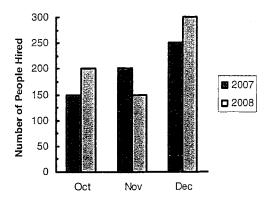
The circle graph below shows the highest degree earned by people aged 25 years and older who live in a Midwestern town. Use the circle graph to answer questions 13 - 15.



- 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 people hired?
- 16. \_\_\_\_\_
- 17. How many people were hired in November and December of 2008?
- 17. \_\_\_\_
- 18. How many people were hired in October, November, and December of 2007?
- 18. \_

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 19. tenth, if necessary.

20. Find the median low temperature for the week.

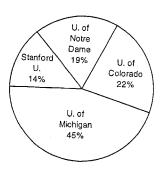
20. \_\_

- 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?
- 56

**b.** 344

c. 14

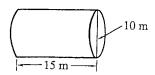
**d.** 86



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

- **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. 🤅

**b.** 2

c. 3

**d.** 4

- **29.** Evaluate:  $-63 \div 7$
- a. -8
- h. -9
- 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. 
$$-7x + 7y + 14z$$

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

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

19. 
$$(2.4)(a-0.2b+3.5c)$$

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

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

Solve: 
$$25 - 5x = 80$$

**b.** 
$$2.4a - 4.8b + 8.4c$$

**d.** 
$$2.4a - 0.48b + 8.4c$$

Solve: 
$$25 - 5x = 80$$

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

## Extra Credit

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

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

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

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

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

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

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

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

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