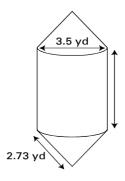
Math 10 GMF - Measurement Exam Review

Show work on looseleaf.	Transfer answers to the provide	d space	Name:	
 Provide the area, in squa length? 	re feet, of a rectangular room that ha	s a length of 6.2 m a	nd a width that is 2	2 m less than the
2. Joan hiked a total of 4.6 k	kilometres on a walking trail. How ma	ny feet is that?		
3. The typical way to repres	sent a length of 136 inches in is to sta	te it as fe	eet incl	nes.
•	that he needs a total of 52 ' 9 13/16 is material only sells it by the full met			
_	with a diameter of 20 inches needs t area of bark that will be removed? (to		e the log is used in	the construction
6. A square-based pyramid surface area(in m²), includin	has a base length of 10 feet, a height g the base?	of 49 inches and a sl	ant length of 5 yar	ds. What is the
7. Joan fills a 24 L bucket w in order to fill up the bucket	vith a container that holds 6 pints (US)	. How many times w	vill she have to fill	up the container
8. A circular backyard sandb What is the volume of sand	ox has a circumference of 12 yards. I used, in yd ³ ?	t is uniformly filled w	vith sand that is 5 i	nches deep.
9. The temperature outdoor temperature does it feel like	rs on a hot summer day is 95°F and the in degrees Celsius?	e humidity makes it f	feel 14°F warmer.	What
,	poiled at a high altitude and has reach °C, then how many more degrees Fah	•		ng point of
11. Steven bought 1 pound represent the combined we	4 ounces of washers and 2 pounds 1 ight of his purchases?	4 ounces of bolts. W	hat is the preferre	ed way to
12. 24 ounces of strawberry	y jam are being sold for \$6.46. What i	s the cost/lb of strav	vberry jam?	
13. Jennifer spent \$23.15 or	n salt being sold for \$0.32/lb. How m	any kilograms of salt	did she buy?	
14. A paper label that is 42 to the nearest tenth)?	cm long just fits around a cylindrical c	an. What is the radi	us, in inches, of th	e can (rounded
15. What is the side length (below?	to the nearest tenth of a cm) of a cub	e that has the same	volume as the cyli	nder shown
below:			8.0 cm 12	.0 cm
	measures 16 m by 10 m. In order		tables need abou	ıt 0.6 yd² of

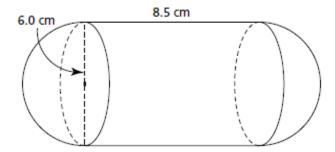
17. The object shown below is a cylinder with conical ends. If the height of the cylindrical portion is 5.5 m, then determine the surface area (in yd^2) and volume (in yd^3) of the object, rounded to the nearest tenth.



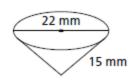
18.

An ice-cream cone is to be coated with chocolate on the inside. The cone has an interior diameter of 7.5 cm and an interior height of 10.0 cm. What is the area to be coated? Write the answer to the nearest tenth of a square unit.

- 20. Determine the surface area and volume.
 - a) right cylinder and hemispheres

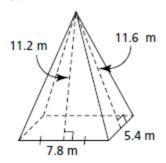


c) right cone



19. Find the surface area and volume of each.

 d) right rectangular pyramid



21.

A fitness ball is delivered in a flat package with a hand pump. The pump inflates the ball at a rate of 280 cm³ per pump, to a diameter of 28 cm. How many pumps are needed to inflate the ball? Justify your answer.

22.

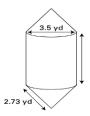
A pail of cookie dough is cylindrical, with diameter 17 cm and height 13 cm. A scoop makes a sphere of cookie dough with diameter 5 cm. How many cookies can be made from this pail of dough?

Math 10 GMF - Measurement Exam Review - answers

Show work on looseleaf. Transfer answers to the provided space	Name:	_Answers			
1. Provide the area, in square feet, of a rectangular room that has a length of 6.2 m an length?	d a width th	at is 2 m less than the 280.3 ft ²			
2. Joan hiked a total of 4.6 kilometres on a walking trail. How many feet is that?		15091.86 ft			
3. The typical way to represent a length of 136 inches in is to state it as	_	11 feet 4 inches.			
4. A carpenter determines that he needs a total of 52 ' 9 13/16 " of baseboard trim to finish a room. The hardware store where he buys all of his material only sells it by the full metre. How many metres of baseboard will he need to buy to finish the room? 16.1 m needed – therefore, he must buy 17 m					
5. The bark on a 16-foot log with a diameter of 20 inches needs to be removed before of a log home. What is the area of bark that will be removed? (to the nearest in²)	the log is us	ed in the construction 12064 in ²			
6. A square-based pyramid has a base length of 10 feet, a height of 49 inches and a sla surface area(in m^2), including the base?	int length of	5 yards. What is the <u>37.16 m²</u>			
7. Joan fills a 24 L bucket with a container that holds 6 pints (US). How many times w in order to fill up the bucket? 8.45 containers equals 1 buck		•			
8. A circular backyard sandbox has a circumference of 12 yards. It is uniformly filled with What is the volume of sand used, in yd^3 ?	ith sand that	is 5 inches deep. 1.59 yd³			
9. The temperature outdoors on a hot summer day is $95^{\circ}F$ and the humidity makes it femperature does it feel like in degrees Celsius?	eel 14°F war	mer. What <u>42.8°C</u>			
10. A pot of water is being boiled at a high altitude and has reached a temperature of water at this altitude is 105°C, then how many more degrees Fahrenheit must the water		e boiling point of 27°F			
11. Steven bought 1 pound 4 ounces of washers and 2 pounds 14 ounces of bolts. Where the combined weight of his purchases?	nat is the pre	eferred way to 4 lbs 2 ounces			
12. 24 ounces of strawberry jam are being sold for \$6.46. What is the cost/lb of straw	berry jam?	\$4.31/lb			
13. Jennifer spent \$23.15 (before tax)on salt at \$0.32/lb. How many kg's of salt did sh	e buy?	32.81 kg			
14. A paper label that is 42 cm long just fits around a cylindrical can. What is the radic to the nearest tenth)?	ıs, in inches,	of the can (rounded			
15. What is the side length (to the nearest tenth of a cm) of a cube that has the same velow?		e cylinder shown cm = 8.4 cm 12.0 cm			
16. A rectangular garden measures 16 m by 10 m. In order to grow well, veget space each. How many plants can you expect to grow in this garden?		about 0.6 yd ² of about <u>319 plants</u>			

17. The object shown below is a cylinder with congruent conical ends. If the height of the cylindrical portion is 5.5 m, then determine the surface area (in yd^2) and volume (in yd^3) of the object, rounded to the nearest tenth.

 $SA = 96.2 \text{ yds}^2$ $V = 71.3 \text{ yds}^3$



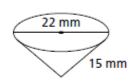
18.

An ice-cream cone is to be coated with chocolate on the inside. The cone has an interior diameter of 7.5 cm and an interior height of 10.0 cm. What is the area to be coated? Write the answer to the nearest tenth of a square unit.

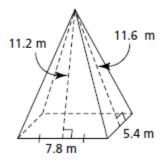
 $A = 125.8 \text{ cm}^2$

19. Find the surface area and volume of each.

c) right cone



 d) right rectangular pyramid



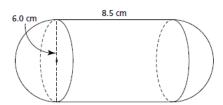
c) $SA = 898.5 \text{ mm}^2$

d) $SA = 192.12 \text{ m}^2$

 $V = 1292.2 \text{ mm}^3$

 $V = 153.0 \text{ m}^3$

- 20. Determine the surface area and volume. SA = 273.3 cm² V = 353.43 cm³
- a) right cylinder and hemispheres



21. <u>about 41 pumps</u>

22. About 45 cookies

A fitness ball is delivered in a flat package with a hand pump. The pump inflates the ball at a rate of 280 cm³ per pump, to a diameter of 28 cm. How many pumps are needed to inflate the ball? Justify your answer.

A pail of cookie dough is cylindrical, with diameter 17 cm and height 13 cm. A scoop makes a sphere of cookie dough with diameter 5 cm. How many cookies can be made from this pail of dough?