

MasterMath

Name _____

7th Grade 3rd Quarter Exam

Date _____

CUCC; You may use a calculator.
Closed Book; 45 minutes to complete

Volume Formulas

Rectangular Prism = bwh

Triangular Prism = Bh

Cylinder = $\pi r^2 h$

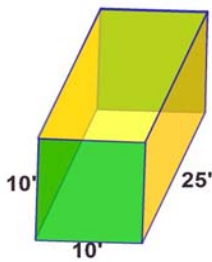
Pyramid = $1/3Bh$

Cone = $1/3Bh$

B = area of base

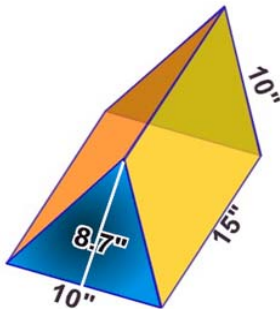
Formulas	
Cone	S.A. = $1/2(2\pi r)l + \pi r^2$
Circle	A = πr^2
Circle	C = $2\pi r$
Rectangle	A = bh
Triangle	A = $1/2 bh$
π	$\pi \approx 3.14$

1. Determine the Surface Area of this figure.



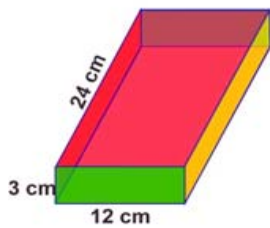
1200 sq ft

2. Determine the Surface Area of this figure.



537 sq in

3. Determine the Surface Area of this figure.



792 sq cm

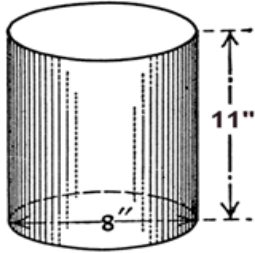
4. Determine the Surface Area of this figure.

Triangular Pyramid



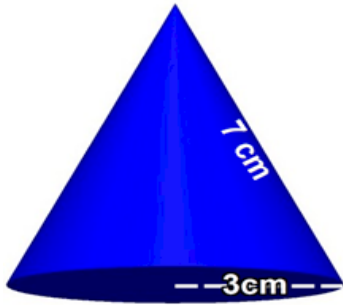
96 sq in

5. Determine the Surface Area of this figure.



376.8 sq in

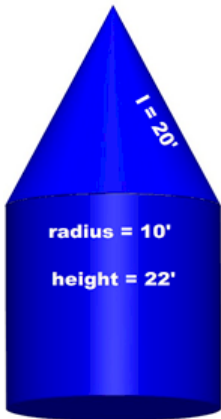
6. Determine the Surface Area of this figure.



94.2 sq cm

Shape	Surface Area	Notes
Cone	$\frac{1}{2}(2\pi r)l + \pi r^2$	$\pi r^2 =$ area of base
Cylinder	$2\pi rh + 2\pi r^2$	$\pi r^2 =$ area of base

7. Determine the Surface Area of this figure.

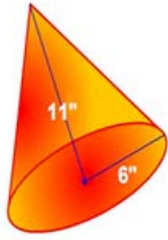


2323.6 sq ft

8. True or false: the surface area of a composite figure is the sum of the surface areas of the individual figures that compose the composite figure.

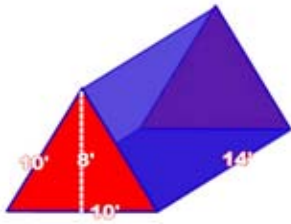
false

9. What is the volume of this figure?



414.48 cu in

10. What is the volume of this figure?

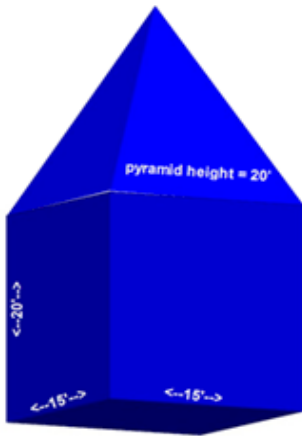


560 cu ft

11. A rectangular prism has a base of 6 cm by 5 cm, and a height of 12 cm. What is the volume of this solid?

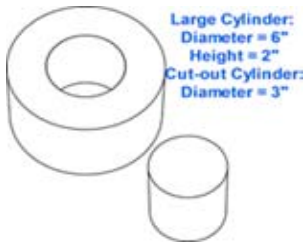
360 cu cm

12. What is the volume of this figure?



6000 cu ft

13. What is the volume of this figure?



42.39 cu in

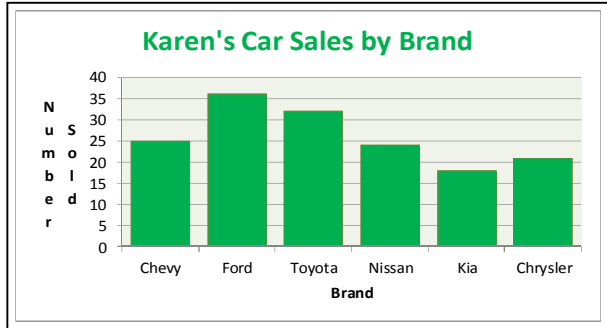
Based upon this Stem and Leaf Plot, answer questions 14-16

Height of basketball team in inches	
Stem	Leaf
6	6, 6, 8
7	1, 4, 8, 9, 9, 9
8	0, 1, 3, 4

14. What is the mean?

15. What is the median?

16. What is the mode?

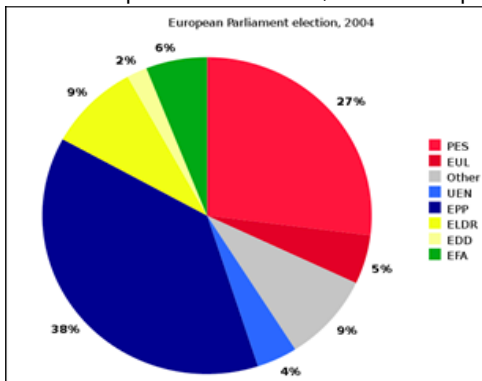


17. Is this a bar chart?

18. How many Chevys were sold?

19. The brand selling the fewest cars was

Based upon this chart, answer questions 20-22



20. What party received 6% of the vote?

21. Which party received the most votes?

22. If there were 1,500,000 votes cast in this election, approximately how many votes did the UEN Party receive?