

MasterMath

7th Grade 3rd Quarter Exam

Name _____

Date _____

CUCC; You may use a calculator.

Closed Book; 45 minutes to complete

Volume Formulas

Rectangular Prism = bwh

Triangular Prism = Bh

Cylinder = $\pi r^2 h$

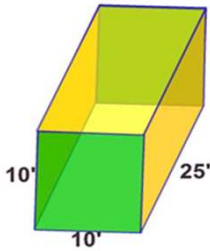
Pyramid = $1/3 Bh$

Cone = $1/3 Bh$

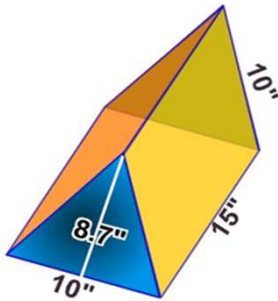
B = area of base

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	$\pi \approx 3.14$

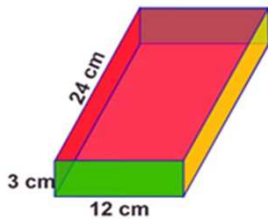
1. Determine the Surface Area of this figure.



2. Determine the Surface Area of this figure.

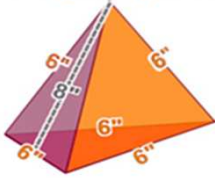


3. Determine the Surface Area of this figure.

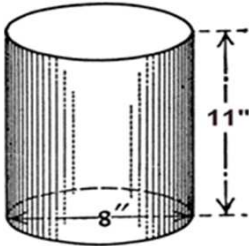


4. Determine the Surface Area of this figure.

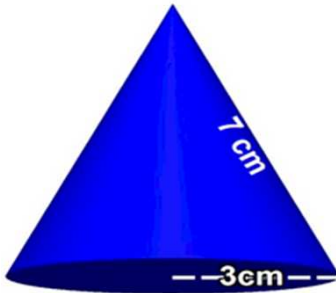
Triangular Pyramid



5. Determine the Surface Area of this figure.

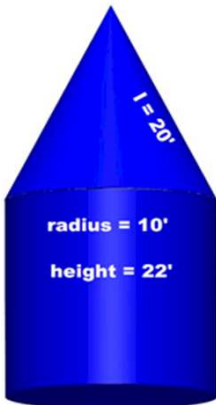


6. Determine the Surface Area of this figure.



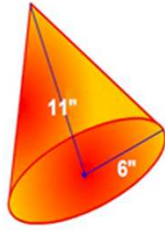
Shape	Surface Area	Notes
Cone	$\frac{1}{2}(2\pi r)l + \pi r^2$	$\pi r^2 =$ area of base
Cylinder	$2\pi r h + 2\pi r^2$	$\pi r^2 =$ area of base

7. Determine the Surface Area of this figure.

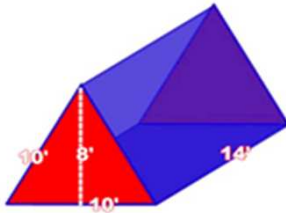


8. True or false: the surface area of a composite figure is the sum of the surface areas of the individual figures that compose the composite figure.

9. What is the volume of this figure?

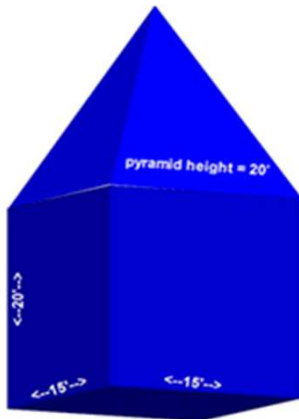


10. What is the volume of this figure?

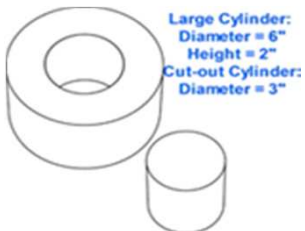


11. A rectangular prism has a base of 6 cm by 5 cm, and a height of 12 cm. What is the volume of this solid?

12. What is the volume of this figure?



13. What is the volume of this figure?



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

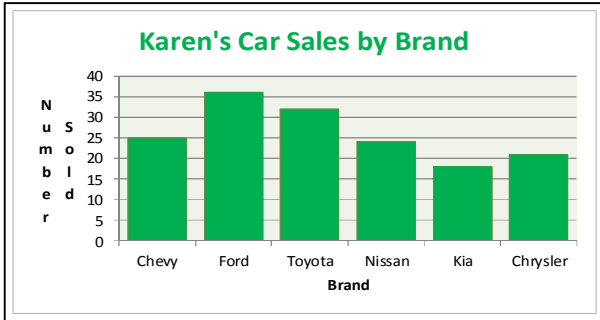
Height of basketball team in inches	
Stem	Leaf
6	6, 6, 8
7	1, 4, 8, 9, 9, 9
8	0, 1, 3, 4

14. What is the mean?

15. What is the median?

16. What is the mode?

Based upon this chart, answer questions 17-19.

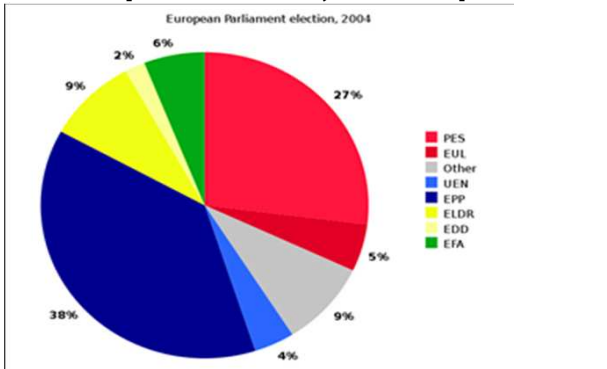


17. Is this a bar chart?

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?

