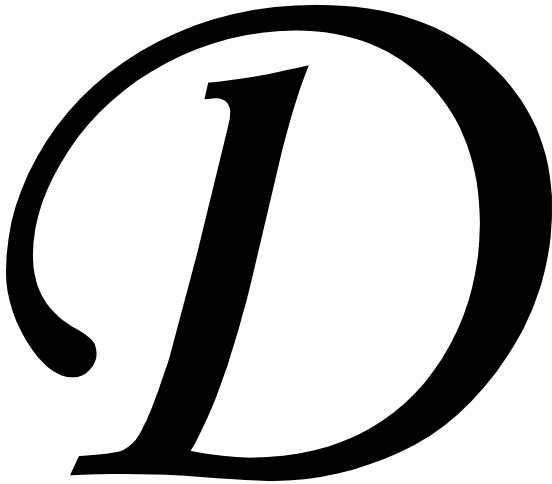


REMT 2004

ANSWERS



- | | |
|-----------|-----------|
| 1. _____ | 13. _____ |
| 2. _____ | 14. _____ |
| 3. _____ | 15. _____ |
| 4. _____ | 16. _____ |
| 5. _____ | 17. _____ |
| 6. _____ | 18. _____ |
| 7. _____ | 19. _____ |
| 8. _____ | 20. _____ |
| 9. _____ | 21. _____ |
| 10. _____ | 22. _____ |
| 11. _____ | 23. _____ |
| 12. _____ | 24. _____ |

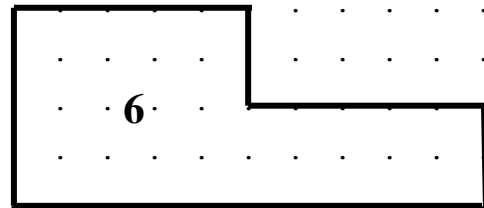
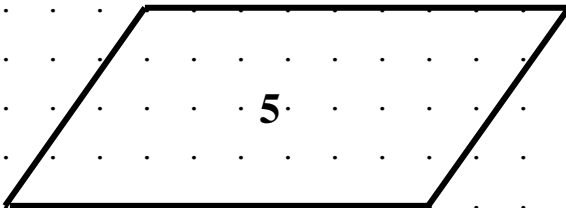
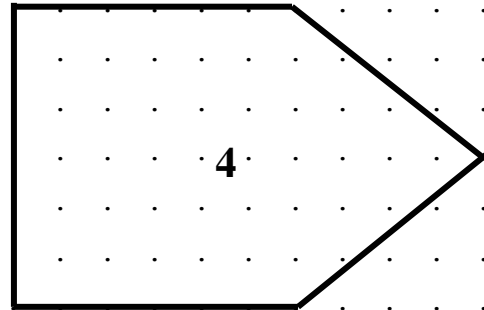
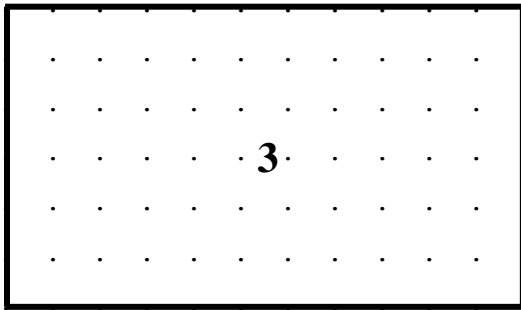
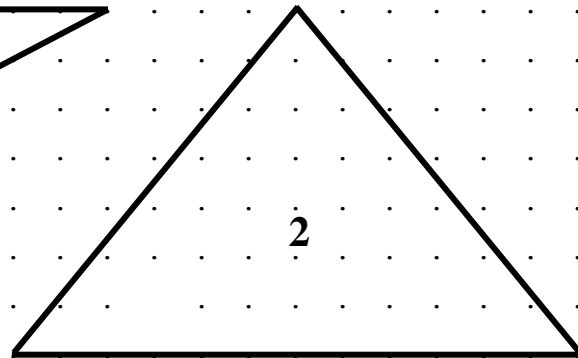
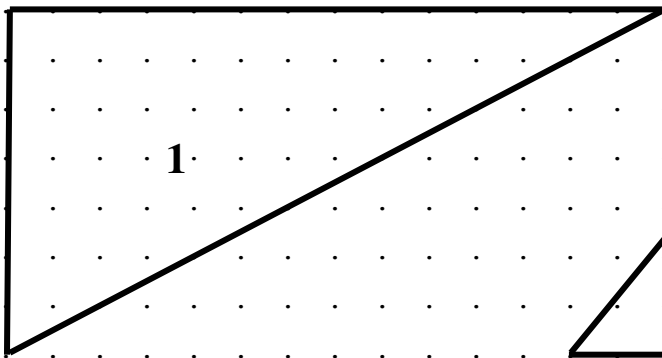
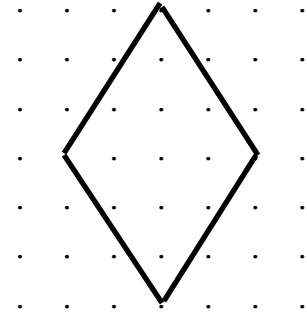
***SHAPES
AND SIZES***

LAST NAME

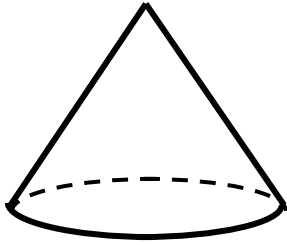
FIRST NAME

GRADE

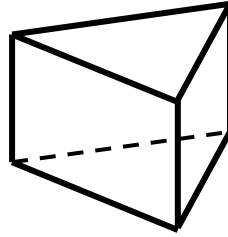
The mathematical term for the diamond-shaped figure at right is rhombus. Likewise each of figures 1 through 6 below has a mathematical term describing it. On the answer sheet, write the appropriate mathematical term for the corresponding figure. For each triangle and quadrilateral, you should give the mathematical term that describes what kind of triangle or quadrilateral it is.



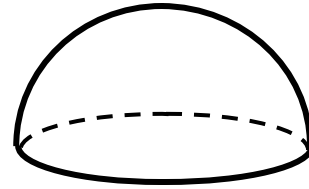
Each of figures 7 through 9 below is a drawing of a solid three-dimensional figure. On the answer sheet, write the mathematical term which best describes each figure.



7

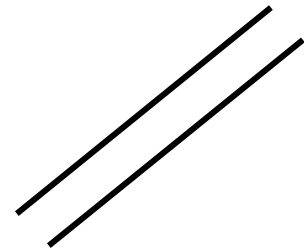


8

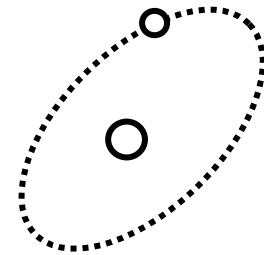


9

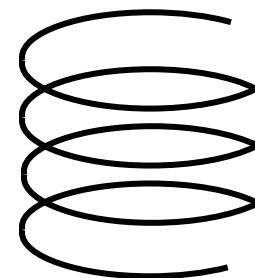
10. Two lines in the plane that do not meet are said to be _____ . (Write your answer on the answer sheet.)



11. The oval-shaped figure described by a satellite in orbit is called a(n) _____. (Write your answer on the answer sheet.)

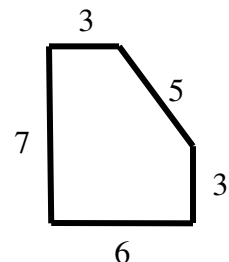


12. The spiral-shaped curve formed by coil springs and DNA molecules is called a(n) _____. (Write your answer on the answer sheet.)



13. What is the area, in square inches, of a triangle whose altitude is 8 inches and whose base is 15 inches?
14. What is the perimeter, in inches, of a 5 by 8 inch rectangle?
15. What is the area, in square inches, of a 5 by 8 inch rectangle?
16. What is the circumference, to the nearest one-tenth of an inch, of a circle whose diameter is 10 inches?
17. What is the area, to the nearest one-tenth of a square inch, of a circle whose diameter is 10 inches?
18. What is the length in inches of a diagonal of a 9 by 12 inch rectangle?

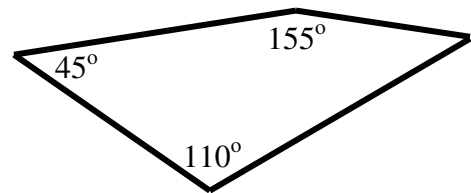
19. This figure has right angles at both bottom corners and at its upper left corner. The length of each side is marked in inches. What is its area in square inches?



20. What is the perimeter of a regular octagon if each of its sides is two units in length?

21. What is the area of a regular octagon if each of its sides is two units in length?

22. The degree measures of three of the angles in this irregular quadrilateral are marked. What is the degree measure of the fourth angle?



23. A cylindrical container has a circumference of 22 inches, and a height of 10 inches. What is the volume of this container, to the nearest cubic inch?

24. At a certain time of day, a flagpole casts a 40 foot shadow. At the same time, a commemorative medallion attached to the flagpole six feet above the ground has its shadow lying 4 feet from the base of the flagpole. How many feet high is the flagpole?

