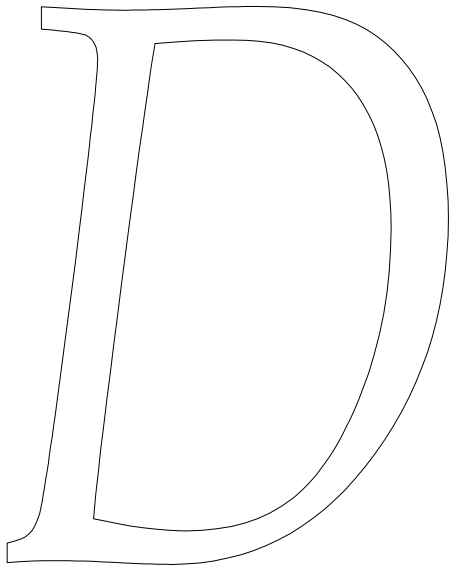


REMT 2007

ANSWERS



**SHAPES
AND SIZES**

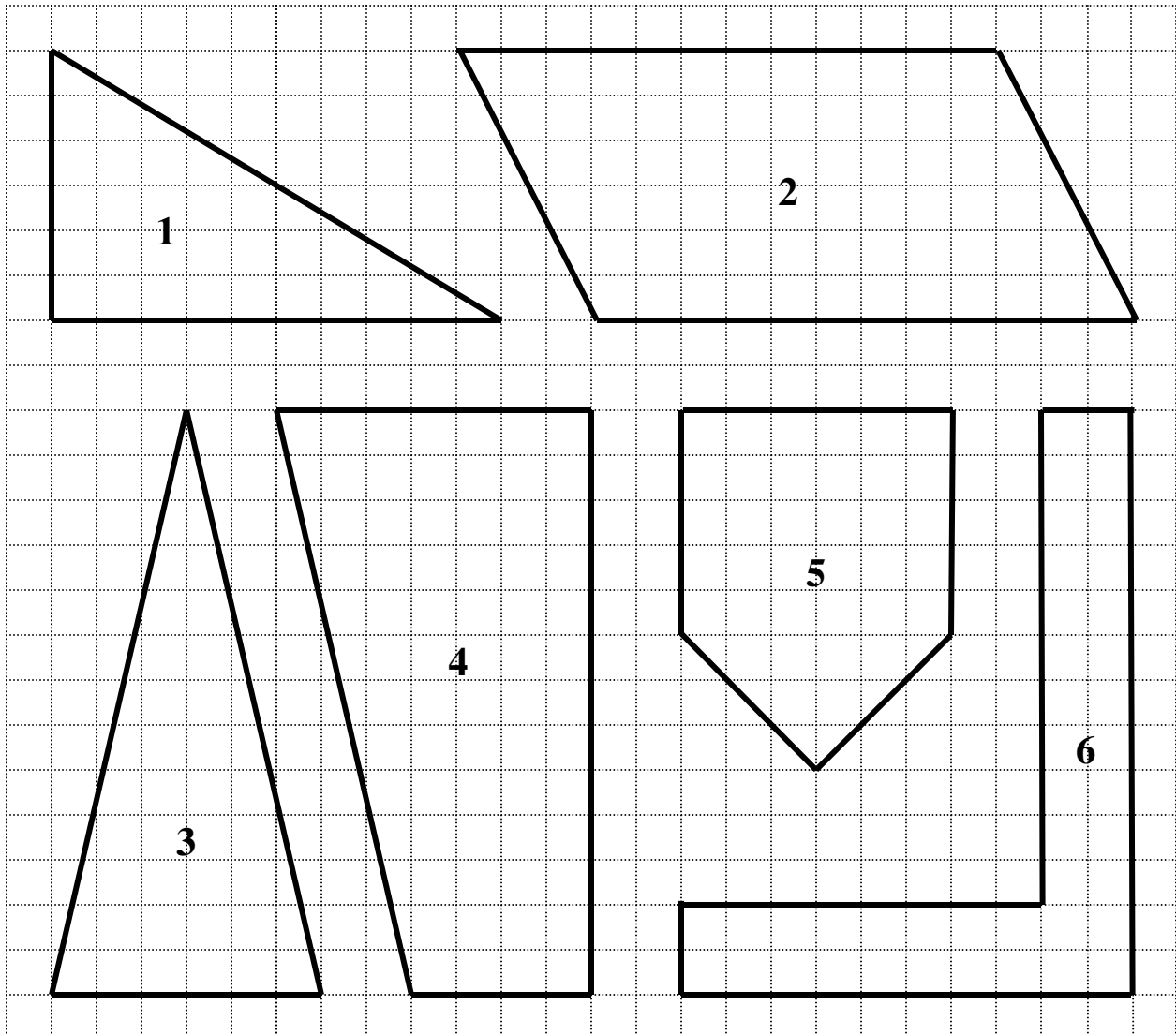
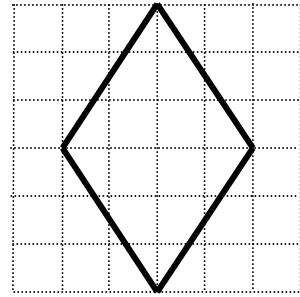
- | | |
|-----------|-----------|
| 1. _____ | 13. _____ |
| 2. _____ | 14. _____ |
| 3. _____ | 15. _____ |
| 4. _____ | 16. _____ |
| 5. _____ | 17. _____ |
| 6. _____ | 18. _____ |
| 7. _____ | 19. _____ |
| 8. _____ | 20. _____ |
| 9. _____ | 21. _____ |
| 10. _____ | 22. _____ |
| 11. _____ | 23.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

LAST NAME

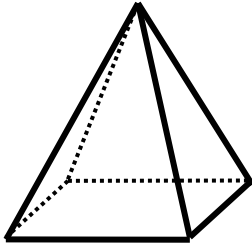
FIRST NAME

GRADE

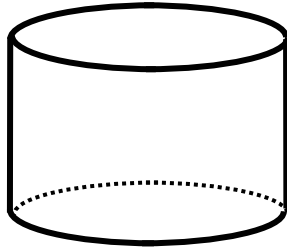
The mathematical term for the diamond-shaped figure at right is rhombus. Likewise each of figures 1 through 6 below has a mathematical term describing it. On the answer sheet, write the appropriate mathematical term for the corresponding figure. For each triangle and quadrilateral, you should give the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



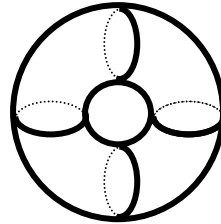
Each of figures 7 through 9 below is a drawing of a solid three-dimensional figure. On the answer sheet, write the mathematical term which best describes each figure.



7

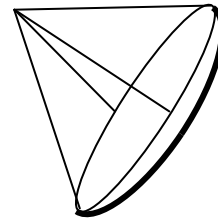


8

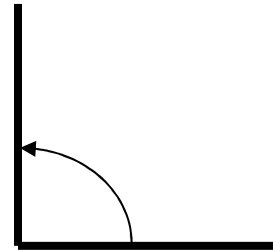


9

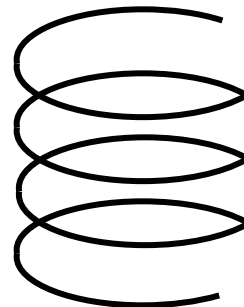
10. A cross-section of a radio telescope dish forms a curve called a(n) _____. (Write your answer on the answer sheet.)



11. A 90-degree angle is called a(n) _____ angle. (Write your answer on the answer sheet.)



12. A three-dimensional curve in the shape of a coil spring is called a(n) _____. (Write your answer on the answer sheet.)



20. Two of the angles in a certain triangle measure 45 degrees and 65 degrees. What is the degree measure of the third angle?
21. At a certain time of day, a 6-foot post casts a 4-foot shadow. At the same time a flagpole casts a 28-foot shadow. How many feet high is the flagpole?
22. What is the surface area, in square inches, of a rectangular box measuring 5 inches by 12 inches by 16 inches?
23. What is the volume, in cubic inches, of a rectangular box measuring 5 inches by 12 inches by 16 inches?
24. The volume of a certain rectangular box is 250 cubic inches. A second box is $\frac{2}{3}$ as wide, $\frac{3}{4}$ as long, and twice as high. What is the volume, in cubic inches, of this second box?