REMT 2006

D

SHAPES

AND SIZES

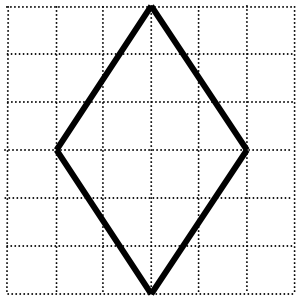
ANSWERS

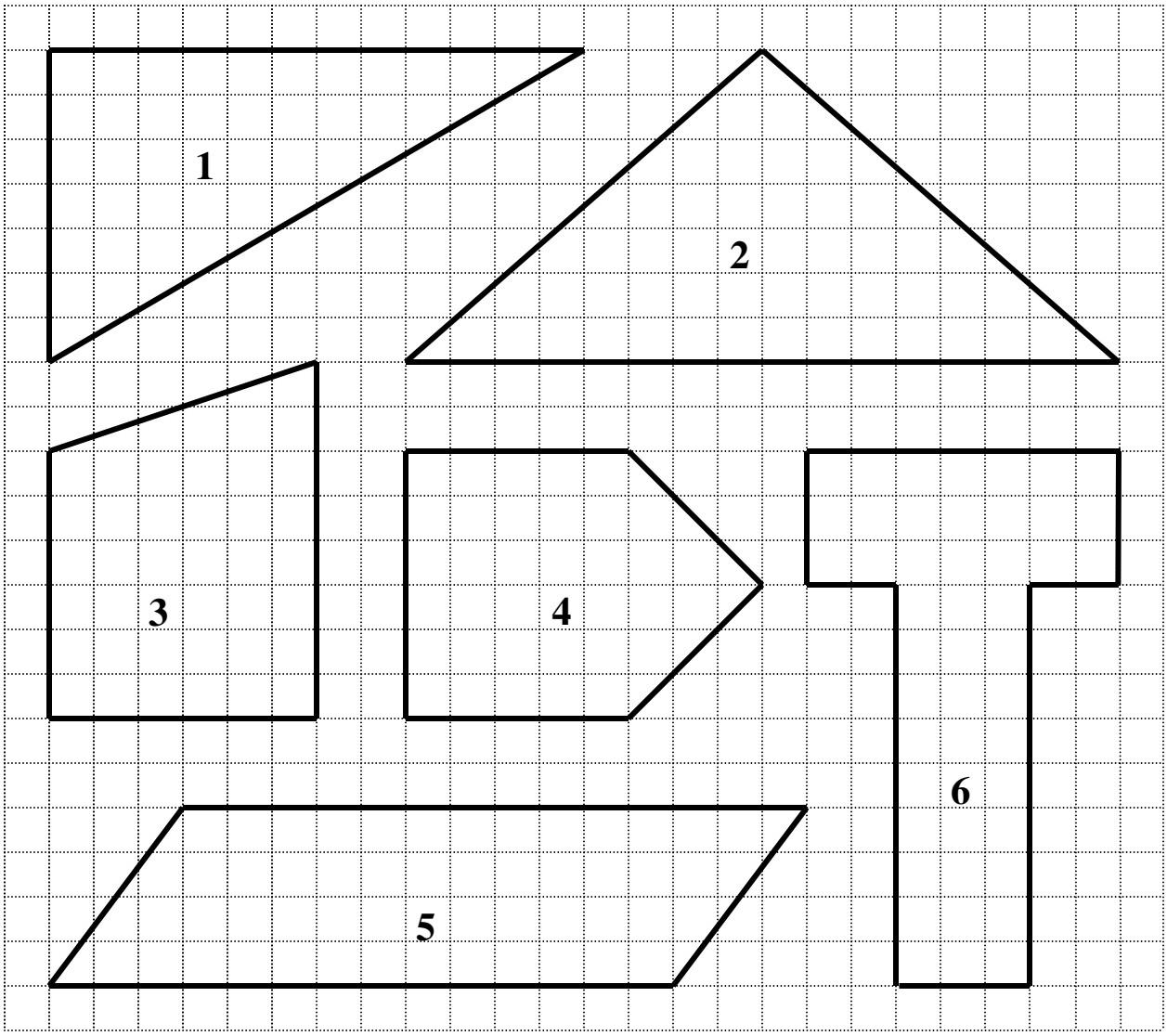
1.	_____	13.	_____
2.	_____	14.	_____
3.	_____	15.	_____
4.	_____	16.	_____
5.	_____	17.	_____
6.	_____	18.	_____
7.	_____	19.	_____
8.	_____	20.	_____
9.	_____	21.	_____
10.	_____	22.	_____
11.	_____	23.	_____
12.	_____	24.	_____

_____ _____ _____

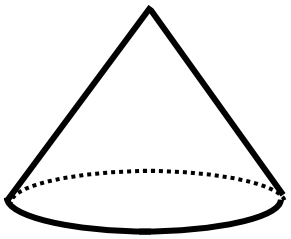
LAST NAME FIRST NAME GRADE

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.

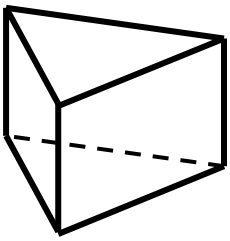




Each of figures 7 through 9 below is a drawing of a solid three-dimensional figure. On the answer sheet, write the mathematical term which best describes each figure.



7



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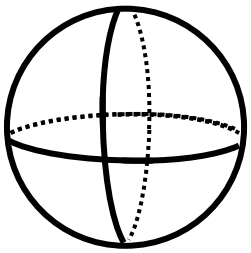
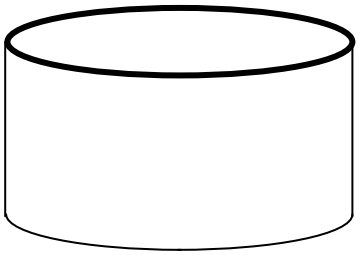
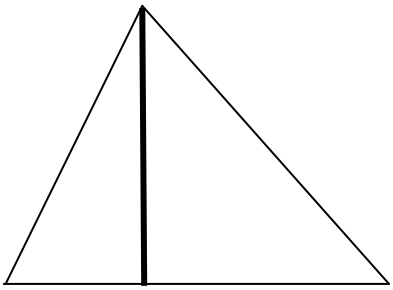


9

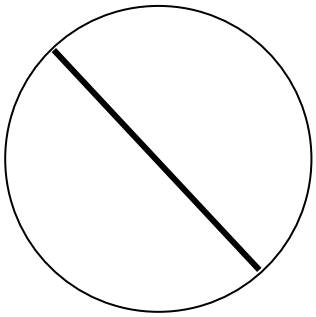
10. The circular head of a drum, when viewed from the side, appears as an oval shape called a(n) _____. (Write your answer on the answer sheet.)



11. A line segment drawn from a vertex of a triangle perpendicular to the opposite side is called a(n) _____. (Write your answer on the answer sheet.)



12. A line segment that joins opposite points on a circle is called a(n) _____. (Write your answer on the answer sheet.)



13. What is the area, in square inches, of a triangle which has a base of 10 inches and a vertex 8 inches above its base?

14. What is the perimeter, in inches, of an 8 by 7 inch rectangle?

15. What is the area, in square inches, of an 8 by 7 inch rectangle?

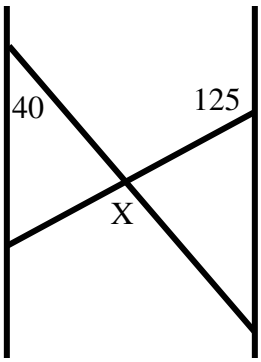
16. What is the hypotenuse, to the nearest one-tenth of an inch, of a right triangle whose legs are 5 inches and 8 inches?

17. What is the circumference, to the nearest one-tenth of an inch, of a circle whose radius is 4 inches?

18. What is the area, to the nearest one-tenth of a square inch, of a circle whose radius is 4 inches?

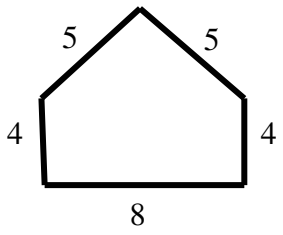
19. What is the perimeter, in inches, of a regular hexagon each of whose sides is 5 inches?

20. In this figure, the vertical lines are parallel, and the degree measures of two of the angles are given. What is the degree measure of the angle labeled X ?



21. What is the degree measure of the angle between the minute hand and the hour hand of a clock when it displays the time as exactly 4:00 ?

22. What is the surface area, in square inches, of a rectangular box measuring 4 inches by 7 inches by 10 inches?

23. What is the volume, in cubic inches, of a rectangular box measuring 4 inches by 7 inches by 10 inches?

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