2002 AMC 8 Sample Questions

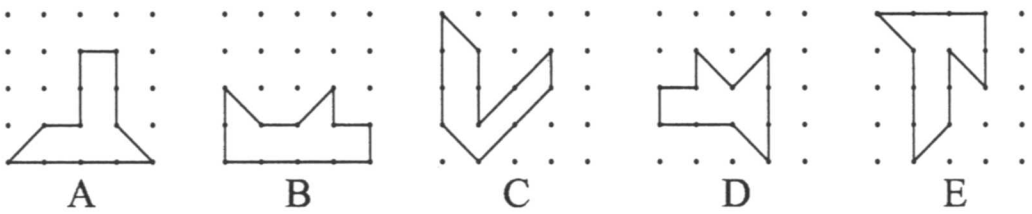
3. What is the smallest possible average of four distinct positive even integers?

   (A) 3 **(B)** 4 **(C)** 5 **(D)** 6 **(E)** 7

4. The year 2002 is a palindrome (a number that reads the same from left to right as it does from right to left). What is the product of the digits of the next year after 2002 that is a palindrome?

   (A) 0 **(B)** 4 **(C)** 9 **(D)** 16 **(E)** 25

15. Which of the following polygons has the largest area?



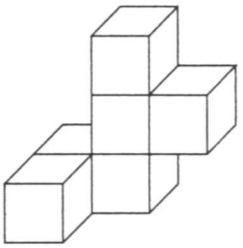
   (A) A **(B)** B **(C)** C **(D)** D **(E)** E

19. How many whole numbers between 99 and 999 contain exactly one 0?

   (A) 72 **(B)** 90 **(C)** 144 **(D)** 162 **(E)** 180

22. Six cubes, each an inch on an edge, are fastened together, as shown. Find the total surface area in square inches. Include the top, bottom and sides.

   (A) 18 **(B)** 24 **(C)** 26 **(D)** 30 **(E)** 36



ANSWERS: 3. (C), 4. (B), 15. (E), 19. (D), 22. (C)