

2025 June AMC8 Week 2 Day 1 - The Rule of Arithmetic Sequences

1 (1分) Halley's Comet has been observed passing Earth in the years 1682, 1758, 1834, 1910, and 1986. When will it return in this century?

- A. 2000 B. 2025 C. 2037 D. 2062 E. 2076

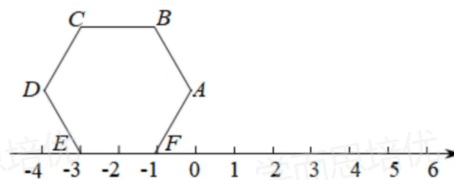
2 (1分) John plans to train for a 5000m race with a 15-day program: 5000m on Day 1, increasing by 300m daily. How far will he run on Day 15?

- A. 4700m B. 7400m C. 8000m D. 9200m E. 9500m

3 (1分) A 5-shelf bookcase holds 450 books. Each upper shelf has 10 fewer books than the one below. How many books on the top shelf?

- A. 10 B. 70 C. 90 D. 200 E. 450

4 (1分) As shown in the diagram, a regular hexagon $ABCDEF$ (with all sides equal) is positioned on a number line. Points E and F correspond to numbers -3 and -1 , respectively. When the hexagon is rotated clockwise around a vertex, after 1 rotation, point A aligns with the number 1. Continuing this rotation pattern, identify which vertex of the hexagon corresponds to the number 4041 on the number line.



- A. E B. D C. C D. B E. A

5 (1分) How many integers between 401 and 1000, inclusive, leave a remainder of 1 when divided by 8?

- A. 72 B. 73 C. 74 D. 75 E. 76

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