

AMC 8 Day 4 GCF & LCM

- 1 (1分) Abe, Bob, and Carl go to the library. Abe goes every 3 days, Bob goes every 4 days, and Carl goes every 2 days. If they meet at the library on April 25th, when will they meet again?
- A. May 6th B. May 7th C. May 18th D. May 19th

- 2 (1分) Wanda, Darren, Beatrice, and Chi are tutors in the school math lab. Their schedules are as follows: Darren works every second school day, Wanda works every fourth school day, Beatrice works every sixth school day, and Chi works every seventh school day. Today they are all working in the math lab. In how many school days from today will they next be together tutoring in the lab? (Adapted from 2001 AMC10 Problem, Question#8)
- A. 42 B. 84 C. 126 D. 178 E. 252

- 3 (1分) Each piece of candy in a store costs a whole number of cents. Casper has exactly enough money to buy either 12 pieces of red candy, 14 pieces of green candy, 15 pieces of blue candy, or n pieces of purple candy. A piece of purple candy costs 21 cents. What is the smallest possible value of n ? (Adapted from 2019 AMC 10B Problem, Question#7)
- A. 18 B. 20 C. 24 D. 25 E. 28

- 4 (1分) The least common divisor of x and y is 330. The least common divisor of y and z is 180. The least common divisor of x and z is 396. Then $z =$ _____.
- A. 36 B. 24 C. 18 D. 20 E. 48

- 5 (1分) One day after the heavy snowfall, Tom and his father walked together to measure the perimeter of a circular flowerbed. Their starting point and walking direction were exactly the same. Each step of Tom is 54 cm long, and his father's step is 72 cm long. Since the footprints of them sometimes overlapped, they left 60 footprints on the snow after each completed a circle. Then the circumference of the circular flowerbed is _____ cm.

A. 2160

B. 3600

C. 7200

D. 1080

E. 720