Today’s resource features a question from one of the recently released 2020 CEMC Mathematics Contests, along with a question from one of our past contests.

2011 Gauss Contest, #13

Five children had dinner. Chris ate more than Max. Brandon ate less than Kayla. Kayla ate less than Max but more than Tanya. Which child ate the second most?

(A) Brandon  (B) Chris  (C) Kayla  (D) Max  (E) Tanya

2020 Gauss Contest, #23

In the diagram, rectangle $PQRS$ has $PS = 2$ and $PQ = 4$. Points $T, U, V, W$ are positioned so that $RT = RU = PW = PV = a$. If $VU$ and $WT$ pass through the centre of the rectangle, for what value of $a$ is the shaded region $\frac{1}{8}$ the area of $PQRS$?

(A) $\frac{2}{3}$  (B) $\frac{1}{2}$  (C) $\frac{2}{5}$

(D) $\frac{1}{3}$  (E) $\frac{1}{4}$

More Info:
Check out the CEMC at Home webpage on Monday, May 25 for solutions to the Contest Day 3 problems.