

# DAY2 NUMBERS & OPERATIONS

## A TASTE OF AMC8



NAME:

- 1 What is the 100th number in the arithmetic sequence: 1, 5, 9, 13, 17, 21, 25, ...? ( ).

(1988 AMC 8 Problem, Question #19)

A. 397

B. 399

C. 401

D. 403

E. 405

- 2 What is the product of  $\frac{3}{2} \times \frac{4}{3} \times \frac{5}{4} \times \cdots \times \frac{2006}{2005}$ ? ( ). (2006 AMC 8 Problem, Question #9)

A. 1

B. 1002

C. 1003

D. 2005

E. 2006

- 3 What is the correct ordering of the three numbers  $\frac{5}{19}$ ,  $\frac{7}{21}$ , and  $\frac{9}{23}$ , in increasing order? ( ). (2012 AMC 8 Problem, Question #20)

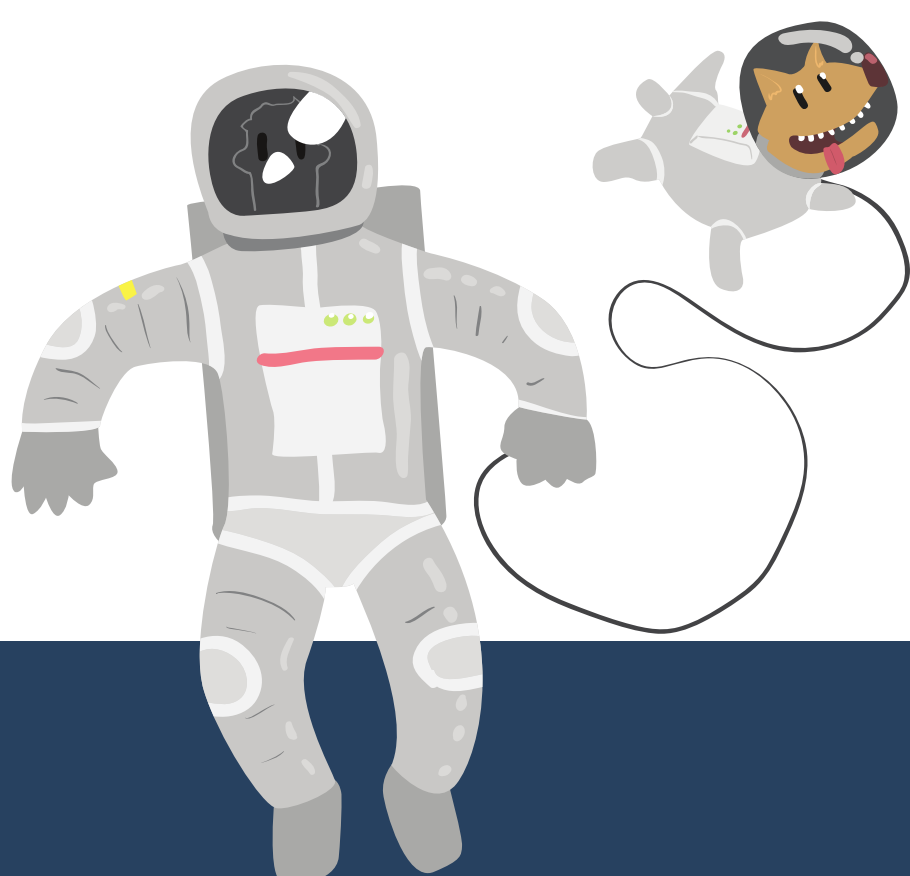
A.  $\frac{9}{23} < \frac{7}{21} < \frac{5}{19}$

B.  $\frac{5}{19} < \frac{7}{21} < \frac{9}{23}$

C.  $\frac{9}{23} < \frac{5}{19} < \frac{7}{21}$

D.  $\frac{5}{19} < \frac{9}{23} < \frac{7}{21}$

E.  $\frac{7}{21} < \frac{5}{19} < \frac{9}{23}$



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Day2



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