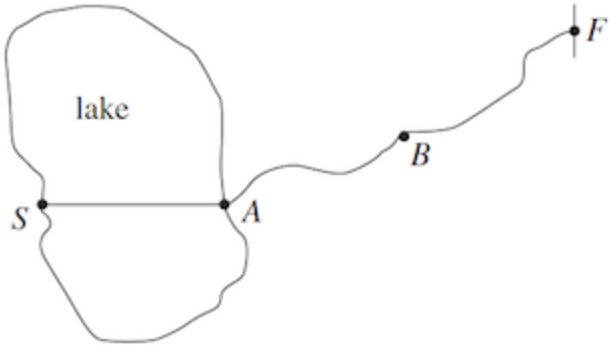
ACT Math Practice Questions & Answers

You are permitted to use a calculator for these questions. You may use your calculator for any problems you choose, but some of the problems may best be done without using a calculator. Stuck? Check out our ACT math tips .

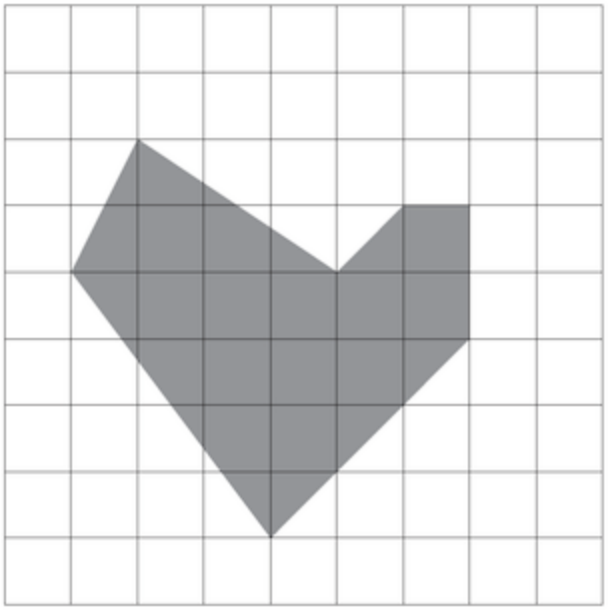
1. Pierre competes in a triathlon, along a course as shown in the figure below. He begins swimming at starting point S and swims straight across the lake, gets on his bicycle at station A, bikes to station B, and then runs to finishing line F. The judges use a stopwatch to record his elapsed times of t_A, t_B, and t_F, respectively. If the distance, in miles, between points S and A along the racecourse is denoted by SA, then what is Pierre's average speed for this race, in miles per hour?



(F) SA/t_A (G) SB/t_B (H) SF/t_F (J) SA/t_F (K) SF/t_A

[+] See the Answer

2. In the grid shown below, each small square has a side length of 1 unit. In the shaded region, each vertex lies on a vertex of a small square. What is the area, in square units, of the shaded region?



(A) 35 (B) 25 (C) 24 (D) 19 (E) 13

[+] See the Answer

3. $(2 - 4t + 5t^2) - (3t^2 + 2t - 7)$ is equivalent to:

(A) $2t^2 - 6t + 9$ (B) $2t^2 - 2t + 9$ (C) $2t^4 - 2t^2 - 5$ (D) $8t^2 - 6t - 5$ (E) $8t^4 - 6t^2 - 5$

[+] See the Answer