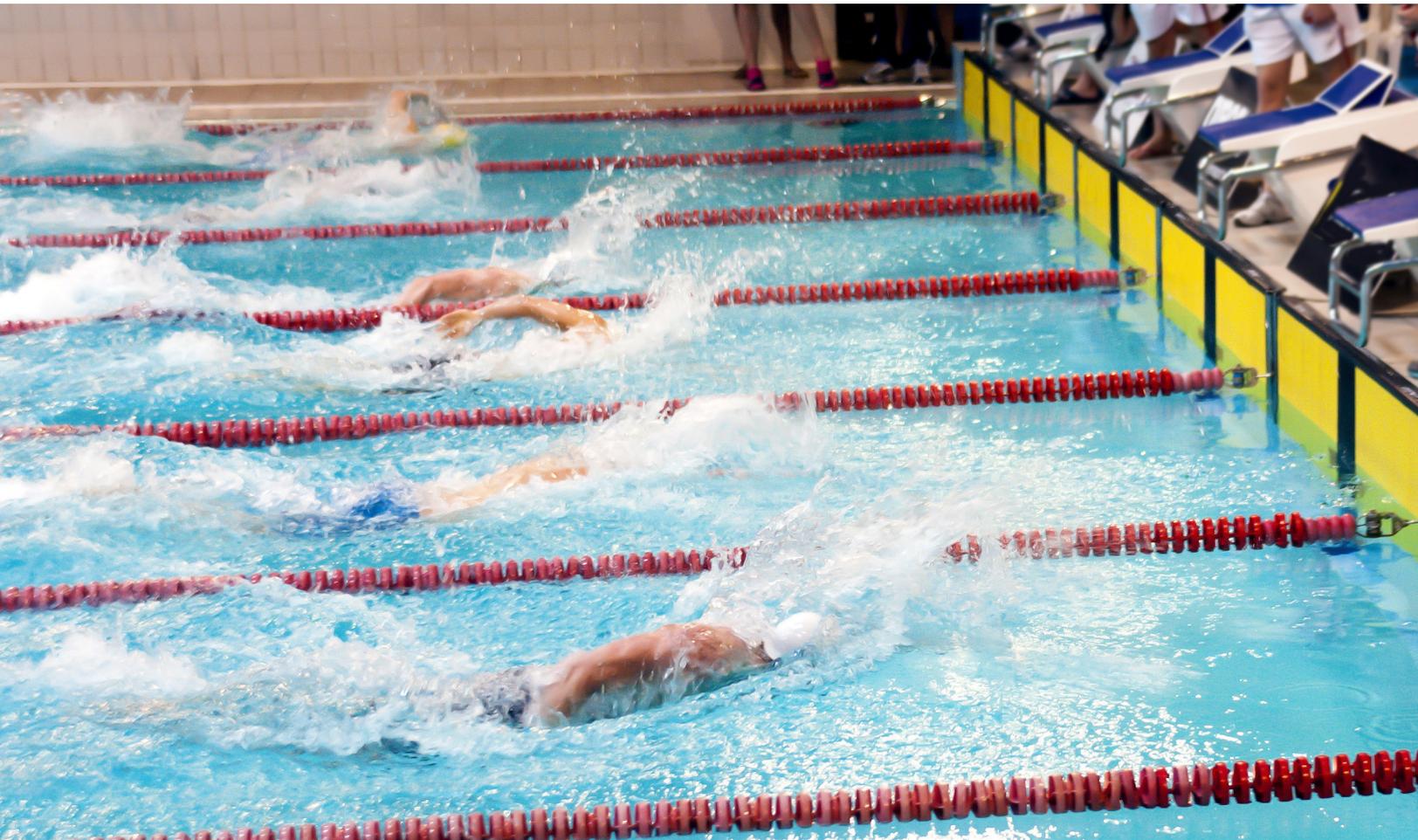


# MeTEOR Performance Task

## Fifth Grade

Mathematics  
*Swim Meet*



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CONNECTING THE DOTS



**Task/Question 2:**

Your swim club has decided to charge a \$5 admission fee for each adult.

- A.** The doors opened promptly at 8:00 am. From 8:00 to 8:15 ten adults paid an admission fee of \$5.00 each. From 8:15 to 8:30 ten times as many adults paid an admission fee then the first 15 minutes. Write a number sentence showing the number of admission fees paid from 8:00 to 8:15 and 8:15 to 8:30.
- B.** Your parents could not believe the number of people attending the swim meet. From 8:30 to 9:30 your parents collected \$5,000.00 in admission fees. How many adults paid \$5.00 from 8:30 to 9:30?
- C.** What is the total amount collected in admission fees from 8:00 to 9:30?
- D.** Does the following equation correctly represent the amount of money collected for admission tickets sold from 8:00 to 9:30:  $10^3 \times 5 = \$5,550.00$   
Explain why you think it is correct or incorrect.

- E.** A grand total of \$6,120.00 was collected in admission fees. Explain in writing the four ways you could represent the amount collected (expanded form, standard form, word form and visual representation using base ten blocks)

**Task/Question 3:**

- A.** You have been busy practicing for the upcoming swim meet by swimming 6 days a week. You swam a total of 321 minutes the first week. If you swam the same number of minutes each day, how many minutes each day did you swim?
- B.** You want to increase your practice time each day for the next six days. With your math partner develop a practice plan showing the increase of practice time. Display your plan using a chart or graph and write a description of your mathematical reasoning for the plan.

**Task/Question 4:**

Your pool is considered a short-course pool that is 25 yards or 25 meters long. The 200 Medley Relay consists of four swimmers per team with eight teams competing at once. Each swimmer is given a different swim stroke; the butterfly stroke, the backstroke, the breaststroke, or free style. Read the chart below closely to determine how the teams ranked for the 200 Medley Relay.

Division 1		Division 2		Division 3	
Team	Time	Team	Time	Team	Time
A	1:30	A	1:30	A	1:30
B	1:40	B	1:41	B	1:34
C	1:37	C	1:27	C	1:33
D	1:51	D	1:33	D	1:30
E	1:27	E	1:27	E	1:27
F	1:29	F	1:29	F	1:29
G	1:31	G	1:31	G	1:22
H	1:33	H	1:26	H	1:26

- What distance did each swimmer swim to complete the 4 person medley relay?
- What are the top 4 teams in each division to receive an award? (the team with the best time)
- If the two slowest teams in each division increased their swim time by 4 second, how would that impact each division's scores? Compare the new times and explain the impact. Be prepared to share your justification with your classmates.



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