

MeTEOR Performance Task

Fifth Grade

Mathematics
Swim Meet

Performance Task Item: Swim Meet

Scenario: Your local swim club is excited to host the upcoming swim meet. The coach has asked team parents to help plan and prepare for this event. Your parents have agreed to help but are unsure about all the rules and regulations to host the meet. Be prepared they are going to need your help.

Task/Question 1:

The first rule your parents learned when hosting a Swim Meet is that they will be responsible for collecting swimmer registration fees from all the participating teams and submitting that money to the State Swimming Association.

- A. There are 10 teams participating in the Swim Meet with 32 members on each team. What is the total number of swimmers participating?

- B. The registration fee for a swim meet is \$10 per swimmer. How much would 1 swim team owe for registration?

- C. What is the total amount of registration fees that your parents will collect and send to the State Swimming Association?

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

- A. What distance did each swimmer swim to complete the 4 person medley relay?

- B. What are the top 4 teams in each division to receive an award? (the team with the best time)

- C. 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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