MATHCOUNTS®

2025 CHAPTER COMPETITION Team Round Problems 1–10

School	
Team Members	, Captain

DO NOT BEGIN UNTIL YOU ARE INSTRUCTED TO DO SO.

This section of the competition consists of 10 problems which the team has 20 minutes to complete. Team members may work together in any way to solve the problems. Team members may talk to each other during this section of the competition. This round assumes the use of calculators, and calculations also may be done on scratch paper, but no other aids are allowed. All answers must be complete, legible and simplified to lowest terms. The

team captain must record the team's official answers on his/her own competition booklet, which is the only booklet that will be scored. If the team completes the problems before time is called, use the remaining time to check your answers.

Total Correct	Scorer's Initials

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1.	tulips	Alex planted four times as many tulips as Patrick planted. Together, they planted 100 tulips. How many tulips did Patrick plant?
2.		All the students on the playground are wearing either long pants or shorts, and some are wearing a jacket. Here is a table where Sareet recorded how many students are wearing various items. What is the probability that a randomly selected student on this playground is wearing long pants and a jacket? Express your answer as a common fraction. Jacket No Jacket
3.	\$	Pants
4.	doughnuts	On Sunday, Ashton buys some doughnuts. On Monday, she gives $\frac{1}{2}$ of the doughnuts to Rachel. On Tuesday, she gives $\frac{1}{3}$ of the remaining doughnuts to Helen. If Ashton has 24 doughnuts left, how many doughnuts did she buy on Sunday?
5.		What is the probability of randomly selecting three distinct unit squares on a 3 × 3 grid and getting three unit squares in a row vertically, horizontally or diagonally? Express your answer as a common fraction.



