Multistep Number Stories

The fourth-grade students in Mr. Kennedy's class are investigating energy and motion. Students worked in teams to build two machines: a car that is propelled by a mousetrap and a boat that is propelled by balloons. Today the teams are competing to see which cars and boats go farthest.

SRB
26, 111-114

Each car or boat gets 3 trials. The total distance from all 3 trials is used to determine which car or boat went farthest. Solve the number stories to help Mr. Kennedy's class compare the machines made by various teams.

(1) Team A's car went 173 cm on the first trial, 206 cm on the second trial, and 245 cm on the third trial. Team B's car went 217 cm on each of the three trials.

Which car went the farthest overall? _____

How much farther did it go? _____

(2) Team A's boat went 130 cm in all. Team B's boat went the same distance on all 3 trials and lost to Team A's boat by 7 cm.

How far did Team B's boat go on each trial? _____

(3) Team D's car went the same distance on each of its trials. Team C's car went exactly 1 cm farther in each trial than Team D's car. Team C's car went 543 cm in all.

How far did Team D's car go on each trial? _____

Practice

(4) $5{,}624 \div 8 =$ _____

(5) $8{,}500 \div 3 =$ _____

(6) $4\overline{)9{,}207}$

(7) $5\overline{)3{,}578}$