The Long-Division Detective

Answers to the six clues

01	156 cards are shared equally among 4 teams. How many per team?	39
02	128 cards are shared equally among 4 teams. How many per team?	32
03	127 tickets are shared among 3 classes. Give quotient and remainder.	42 R 1
04	95 tickets are shared among 4 classes. Give quotient and remainder.	23 R 3
05	168 beads go into 6 trays equally. How many per tray?	28
06	132 beads go into 6 trays equally. How many per tray?	22

Code reasoning

A = quotient in answer 1 - quotient in answer 2: 39 - 32 = 7 -> 7

B = remainder in answer 3 + remainder in answer 4: 1 + 3 = 4 -> 4

C = quotient in answer 5 - quotient in answer 6: 28 - 22 = 6 -> 6

The code is 746. The file is in the Maple drawer.

Ask the student to explain each code digit, then check units and remainders before showing this key.