

Name & Surname: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_

 Grade 6 & 7 2025 # 23 Hand in by Thurs 14 August

Two problems

1. Five positive whole numbers (not necessarily all different) are written on five cards. Boris calculates the sum of the numbers on every pair of cards. He obtains only three different totals: 57, 70 and 83.

What is the largest number on any card?

The numbers are 22, 35, 35, 35, 48

1. Five points lie on a straight line. Alex finds the distances between every pair of points. He obtains, in increasing order, 2, 5, 6, 8, 9, *k*, 15, 17, 20 and 22.

What is the value of *k*?



Therefore $k=14$

