

Student Name: _____

Please write your name on *every* page.

2 Section B

B1

How many numbers between 10 and 100 have the property that their digits add up to 10?

Answer to B1: _____

B2

At MathMart, mechanical pencils are sold at \$2.00 each and scientific calculators are sold at \$4.50 each. One day, Stephen buys 3 mechanical pencils and 3 scientific calculators from MathMart, which he plans on giving to his friends. How much money did he spend that day at MathMart? (Ignore tax.)

Answer to B2: _____

B3

Given the equation $y = 4x + 9$, if the value of y is 25, what is the value of x ?

Answer to B3: _____

B4

An integer x is shown on the number line below, where numbers on the right are larger than numbers on the left. If x is a perfect square, what is the value of x ?



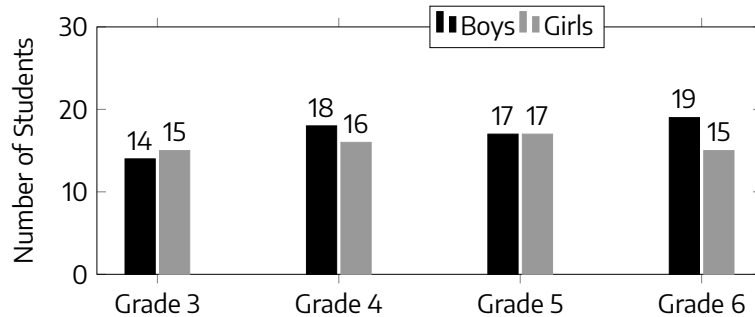
Answer to B4: _____

Student Name: _____

Please write your name on *every* page.

B5

The graph below shows the number of boys and girls in grades 3 through 6 at Hilbert Elementary School. How many more boys than girls are there in even numbered grades?



Answer to B5: _____

B6

What is the smallest positive integer that is divisible by 1, 2, 3, 4, 5, 6, and 7?

Answer to B6: _____

B7

If the word "MATHEMATICS" is written in capital letters, how many of the 11 letters will look identical when flipped from left to right (i.e. How many of the 11 letters look the same as they do normally when you look at them through a horizontal mirror?)

Answer to B7: _____

Student Name: _____

Please write your name on *every* page.

B8

A group of friends (Andrew, Cristian, Kevin, Trevor) challenged each other to a pie-eating contest, where the first person to finish eating an entire pie would win. The following information is known about the results of the contest:

- Trevor finished his pie before Cristian and Kevin.
- Cristian finished his pie after Kevin.
- Kevin finished in third place.
- Andrew finished his pie before Trevor.

Which friend came in second place?

Answer to B8: _____