Date: 02/23/2017 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_

*========****Review****========*

1. If a 2 + 2ab + b2 = 16 and c2 + 2cd + d2 = 36, what is the least possible value of the sum a + b + c + d? (Mathcounts Chapter Countdown 2016)
2. What is the value of $(x+\frac{1}{x})^{2}$, if x =$\sqrt{\frac{5}{8}}$? Express your answer as a common fraction. (Mathcounts State Countdown 2016)
3. What is the sum of all positive integers k such that the equation x2 + 11x + k = 0 has two integer solutions? (Mathcounts State Countdown 2016)
4. What is the sum of the solutions to x2+ 3x = 10? (Mathcounts State Countdown 2016)

P354: 11.28

11.29 (b)

11.31

11.33

====Pascal’s Triangle ====

(x+y)4

(x-y)4

(1+1)n

(10+1)n

*====* ***11.3 Sums and Differences of cubes*** *===*

P339: 11.14

(a)

(b)

(c)

(d)

11.15

11.16

11.17

11.3.4

(a)

(b)

(c)

*====* ***11.4 Rationalizing Denominators****====*

P345: 11.19

(a)

(b)

11.20

11.21

***===============Homework===============***

*Read the summary and answer the following questions.*

P343: 11.3.1

(a)

(d)

11.3.2

11.3.3

11.4.1

(a)

(b)

11.4.2

(a)

11.4.4

11.4.5

P354: 11.27 (a) (d)

11.34

11.36

11.38(a)

11.45

11.47

11.49

(a)

(b)

(c)

(d)