**Accelerated 2**

**Spring Student Enrichment Packet**



PRINCE GEORGE’S COUNTY PUBLIC SCHOOLS

Office of Academic Programs

Department of Curriculum and Instruction

**™**

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**Answer Key**

|  |  |
| --- | --- |
| **Problem** | **Answer** |
| 1.  | (2, -1) |
| 2. |  |
| 3. | D, E |
| 4. Part A | Coach Patrick: 16*s* + 12*d* = 144Coach Samuel: 12*s* + 15*d* = 120  |
|  Part B | 1 Sandwich = $7.501 Drink = $2 |
| 5. | D |
| 6. Part A | (-2, 2) |
|  Part B | I can check that the solution is correct by substituting -2 for *x* and 2 for y and checking that the two sides of the equation are equal. 6(-2) + 3(2) = -6 and 2 = ½(-2) + 3 |
| 7. | C |
| 8. Part A | The axis intervals and points plotted should be accurate.  |
|  Part B | Positive; more |
| 9. Part A | 7/20 |
|  Part B | 3/13 |
| 10. | Equivalent: 33, 36-3, $ \frac{3^{6}}{3^{3}}$ Not Equivalent:3-18, 3-3, $\frac{3^{6}}{3^{-3}}$, $(3^{6})^{-3}$ |
| 11 | False, False, True, False, False |
| 12. | From left to right: $\frac{π}{3}$ , $\sqrt{2}$ , $\sqrt{3}$ , $\frac{\sqrt{14}}{2}$ , $\frac{186}{97}$ |
| 13.  | C |
| 14.  | C |
| 15. Part A | 32 + 12 = c210 = c23.2 = cThe baseball diamond is 3.2 km from the track. |
|  Part B | One pair that has an equal distance of 3.2 km is the soccer field and the baseball diamond, and the other is the basketball courts and the school. I know this because each pair is separated by a diagonal of a triangle which has three units on one side and one unit on the other.  |
|  Part C | From the track to the basketball courts, it is 7.3 km:72 + 22 = c249 + 4 = c253 = c27.3 = cFrom the soccer field to the basketball courts, it is 6.7 km: 32 + 62 = c29 + 36 = c245 = c26.7 = cSo it is farther from the track to the basketball courts than the soccer field to the basketball courts.  |