|  |  |
| --- | --- |
| **1.**Elijah has a square plot of side **m** and another triangular plot with base and height each equal to **m**. What is the total area of both plots? | |
| 🔘 A.   \frac{3m^2}{2} 23*m*2​ | 🔘 B.   \frac{2m^3}{3} 32*m*3​ |
| 🔘 C.   \frac{3m^2}{5} 53*m*2​ | 🔘 D.   \frac{3m}{1} 13*m*​ |
| 🔘 E. .   \frac{5m}{3} 35*m*​ | |

**Answers**

|  |  |
| --- | --- |
| **2.**A travel agency charges $ 8 per km and levies a fixed charge of $ 50 for bus service. Write an algebraic expression for the above situation, if the bus is hired for x km**.** | |
| 🔘 A. 3x + 40 | 🔘 B. 5x + 27 |
| 🔘 C. 2x + 39 | 🔘 D. 3x + 31 |
| 🔘 E. 8x + 50 | |

**Answers**

|  |  |
| --- | --- |
| **3.**A teacher gets paid $70 per hour. Last week he worked for 9 hours and this week he will work for x hours. Write an algebraic expression for the money paid to him for both the weeks. | |
| 🔘 A. 70(x + 9) | 🔘 B. x(70 + 9) |
| 🔘 C. 9 (x + 70) | 🔘 D. x (70 × 9 ) |
| 🔘 E. 9 (x × 7 ) | |

**Answers**

|  |  |
| --- | --- |
| **4.**Liam collects 12 leaves and William collects x leaves for science project. After some time Liam loses 3 leaves and William collects 2x leaves. Which one of the following algebraic expression of the total number of leaves collected by both of them. | |
| 🔘 A. 12 + 2x | 🔘 B. 12-9 + 3x |
| 🔘 C. 7 + 3x | 🔘 D. 3 + 3x |
| 🔘 E. 9 + 3x | |

**Answers**

|  |  |
| --- | --- |
| **5.**Simplify combining like terms**z2 + 13z2 – 5z + 7z3 – 15z** | |
| 🔘 A. 7z3 + 12z2 -20z | 🔘 B. 5z2 + 3z2 -11z |
| 🔘 C. 5z2 + 6z3 -10z | 🔘 D. 9z3 + 8z2 -6z |
| 🔘 E. 3z2 + 7z2 -13z | |

**Answers**

|  |  |
| --- | --- |
| **6.** Simplify combining like terms **5x2y – 5x2 + 3yx2 – 3y2 + x2 – y2 + 8xy2 – 3y2** | |
| 🔘 A. 8x2y + 8xy2 – 4x2– 7y2 | 🔘 B. 4x2y + 4xy2 – 2x2– 3y2 |
| 🔘 C. 2x2y + 2xy2 | 🔘 D. 3x2– 5y2 |
| 🔘 E. 5xy2 – 3x2– 2y2 | |

**Answers**

|  |  |
| --- | --- |
| **7.**Add**ab – 4a, 4b – ab, 4a – 4b** | |
| 🔘 A. 1 | 🔘 B. 2 |
| 🔘 C. 3 | 🔘 D. 4 |
| 🔘 E. 0 | |

**Answers**

|  |  |
| --- | --- |
| **8. What should be added to x2 + xy + y2 to obtain 2x2 + 3xy?** | |
| 🔘 A. 2x + 2xy – y | 🔘 B. x2 + 2xy – y2 |
| 🔘 C. x3 +  y3 | 🔘 D. x + 3xy – y |
| 🔘 E. 2x + 2xy – 2y | |

**Answers**

|  |  |
| --- | --- |
| **9.  What should be subtracted from 2a + 8b + 10 to get – 3a + 7b + 16?** | |
| 🔘 A. 3a + 2b –3 | 🔘 B. 6a + 2b – 1 |
| 🔘 C. 6a – 3a + 6 | 🔘 D. 5a + b – 6 |
| 🔘 E. a + 5b – 1 | |

**Answers**

|  |  |
| --- | --- |
| **10.**What should be taken away from **3x2 – 4y2 + 5xy + 20**to obtain**– x2 – y2 + 6xy + 20?** | |
| 🔘 A. 4x2 – 3y2 – xy | 🔘 B. 4x – 3y – xy |
| 🔘 C. 2x3 – 2y – xy | 🔘 D. 5x –3y – xy |
| 🔘 E. 2x2 – 4y2 | |

**Answers**