**Splitting the steps: Rearranging equations**

For each equation rearrange to make y the subject of the equation:

***Set A***

|  |  |  |
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| 1. |  3y – 6 = 12x 3y = 12x + 6 y = 4x + \_\_\_ | Add 6 to both sidesDivide by 3 |
| 2. |  5y – 15 = 30x 5y = 30x + 15 y = \_\_\_\_ + \_\_\_\_\_ | Add 15 to both sidesDivide by 5 |
| 3. |  4y – 16 = 20x 4y = 20x + \_\_\_\_\_\_ y = \_\_\_\_\_ + \_\_\_\_\_\_ | Add 16 to both sidesDivide by \_\_\_\_\_\_\_ |
| 4. |  10y – 70 = 90x 10y = \_\_\_\_\_ + \_\_\_\_\_\_ y = \_\_\_\_\_ + \_\_\_\_\_\_ | Add \_\_\_\_\_\_ to both sides\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 5. |  2y – 8 = 20x \_\_\_\_\_ = \_\_\_\_\_\_ + \_\_\_\_\_\_ \_\_\_\_\_ = \_\_\_\_\_\_ + \_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 6. | 12y – 36 = 48x | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

***Set B***

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| 1. |  4y + 8 = 12x 4y = 12x - 8 y = 3x + \_\_\_ | Subtract 8 from both sidesDivide by 4 |
| 2. |  11y + 11 = 33x 11y = 33x - 11 y = \_\_\_\_ + \_\_\_\_\_ | Subtract 11 from both sidesDivide by 11 |
| 3. |  13y + 39 = 26x 13y = 26x + \_\_\_\_\_\_ y = \_\_\_\_\_ + \_\_\_\_\_\_ | Subtract 39 to both sidesDivide by \_\_\_\_\_\_\_ |
| 4. |  5y + 35 = 10x 5y = \_\_\_\_\_ + \_\_\_\_\_\_ y = \_\_\_\_\_ + \_\_\_\_\_\_ | Subtract \_\_\_\_\_\_ from both sides\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 5. |  9y + 18 = 27x \_\_\_\_\_ = \_\_\_\_\_\_ + \_\_\_\_\_\_ \_\_\_\_\_ = \_\_\_\_\_\_ + \_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 6. | 8y + 54 = 64x | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Extension:**

***(a)*** 6y – 36 = 24x ***(b)*** -2y + 14 = -8x (c) 45 – 9y = 18x (d) 4x = 8y – 12

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