**Single variable substitution with subtraction**

Green

If h = 15, find the value of:

|  |  |
| --- | --- |
| 1. h - 2 = | 6. 20 - h = |
| 2. h - 10 = | 7. h - 1 = |
| 3. h - 8 = | 8. 40 - h = |
| 4. h - 7 = | 9. 15 + h - 4 - h = |
| 5. h - 12 = | 10. 6 + h - 3 - h = |

Amber

Find the value of the following,

1) If y = 9

2) If y = -4

|  |
| --- |
| a. y - 3 = |
| b. 9 - y = |
| c. y - 3 + y - 2 = |
| d. 4 + y + y - 1 = |
| e. y - y + y - y + y = |

Red

If p = 3, q = 6 and r = -5, find the value of:

|  |  |
| --- | --- |
| 1. 10 - p = | 6. q + 3 - q - q = |
| 2. q - 6 = | 7. -5 - q = |
| 3. r + 1 = | 8. -1 - p - p = |
| 4. p - 10 = | 9. -10 + r + r = |
| 5. 2 + p - 3 = | 10. 100 + p + q + r = |

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**Solutions: Single variable substitution with subtraction**

Green

If h = 15, find the value of:

|  |  |
| --- | --- |
| 1. h - 2 = 13 | 6. 20 - h = 5 |
| 2. h - 10 = 5 | 7. h - 1 = 14 |
| 3. h - 8 = 7 | 8. 40 - h = 25 |
| 4. h - 7 = 8 | 9. 15 + h - 4 - h = 11 |
| 5. h - 12 = 3 | 10. 6 + h - 3 - h = 3 |

Amber

Find the value of the following,

1) If y = 9

2) If y = -4

|  |
| --- |
| a. y - 3 = 6, -7 |
| b. 9 - y = 0, 14 |
| c. y - 3 + y - 2 = 13, -13 |
| d. 4 + y + y - 1 = 21, -5 |
| e. y - y + y - y + y = 9, -4 |

Red

If p = 3, q = 6 and r = -5, find the value of:

|  |  |
| --- | --- |
| 1. 10 - p = 7 | 6. q + 3 - q - q = -3 |
| 2. q - 6 = 0 | 7. -5 - q = -11 |
| 3. r + 1 = -4 | 8. -1 - p - p = -7 |
| 4. p - 10 = -7 | 9. -10 + r + r = -20 |
| 5. 2 + p - 3 = 2 | 10. 100 + p + q + r = 104 |

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