

Simple substitution

Find the value when $x = 4$, $y = 2$ and $z = 3$.

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|------------------------|--------------------------|--------------------------|
| 1 $2x + y$ | 8 $6y - 2z$ | 15 $4y + z - 2x$ |
| 2 $3y + 2z$ | 9 $3x - 6y$ | 16 $y + z - x$ |
| 3 $5x + z$ | 10 $6x - 8z$ | 17 $4x + y - 6z$ |
| 4 $x + 3z$ | 11 $x + y - z$ | 18 $5z - 5y - x$ |
| 5 $x + y + z$ | 12 $x + 3y - 2z$ | 19 $z - y + x$ |
| 6 $x + 3y + 2z$ | 13 $2x + 5y - 4z$ | 20 $8z - 4y - 2x$ |
| 7 $5x - 3y$ | 14 $3x - y - z$ | |

First simplify, then find the value, given that $a = 5$, $b = 4$ and $c = 2$.

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| 21 $2a + 4b + a + 2b$ | 33 $6a + 2b + c - 4b + a$ |
| 22 $3a + 2c + 3c + a$ | 34 $5b + c - 3b + 2a + c$ |
| 23 $4b + c + 2b + c$ | 35 $7c + a + b - 2c + a$ |
| 24 $6a + b - 3a + 2b$ | 36 $8a + 7b + c - 5b - a$ |
| 25 $5c + 2a - c + 3a$ | 37 $c + b + 7a - b - a$ |
| 26 $3c + 4b - 3c + b$ | 38 $6a + 3b - 2a - 3b$ |
| 27 $2a + b + 4a - b$ | 39 $4c + 2b - c + b - a$ |
| 28 $5c + 3a - 2c + 4b - 2a$ | 40 $a + 3b + a - c$ |
| 29 $2a + 3b - a + 5c - 3c + b$ | 41 $9a + b - 6a + 2c - b$ |
| 30 $4b + 4c - 3b + a - 3c$ | 42 $5c + 3b - 3c - 3b + 2a$ |
| 31 $7a + 2b + 4c - 6a + 3b - 2c$ | 43 $5a + 3b - 2a - 3b - 3a$ |
| 32 $3a + b + 2c - a - b - 2a$ | 44 $2a + b + c - a - b - a$ |

Simplify before finding the value, given that $p = 10$, $q = 3$ and $r = 1$.

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| 45 $2(3p + 2q) + 4(p - q)$ | 53 $3q + 8r + 2(q - 3r)$ |
| 46 $5(p + 2q) + 2(p - 4q)$ | 54 $p + 2q + 3r + 2(p + q - r)$ |
| 47 $3(6q + 4r) + 4(q - r)$ | 55 $2(3p + q + 4r) + 3(r + 4q - 2p)$ |
| 48 $6(p + r) + 2(r - 2p)$ | 56 $4(p + 2q + 3r) + 2(r - 4q - 2p)$ |
| 49 $5(3q + 2r) + 3(r - 5q)$ | 57 $3p + 9r + 3(r - p - q)$ |
| 50 $4(p + q) - 3p - q$ | 58 $6q + 7r + 2(r - q - p)$ |
| 51 $3(2q + r) - 4q + 2r$ | 59 $8p + q + 3(p - 5r - q)$ |
| 52 $5(q + 3r) + q - 7r$ | 60 $6(p + q - 3r) + 4(p - q) + 2r$ |