Simple substitution

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

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

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

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

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

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

LIVEWORKSHEETS