Worksheet

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Problem quickname: 8231

<u>1)</u>

Transform this term into a product. Do this by performing factorisation as shown in example a).

a) $40a^2 + 30ad = 10a(4a + 3d)$ b) $7ad + 14d = 7d(a + 2)$
c) $49c^2 + 7cd = 7c(7c + d)$ d) $5xy + 45y^2 = 5y(9y + x)$
e) $32b + 44d = 4(8b + 11d)$ f) $5d^2 - 35d = 5d(d - 7)$
g) $45x^2 + 5xy = 5x(9x + y)$ h) $42c + 6d = 6(7c + d)$
i) $9vx + 18v = 9v(x + 2)$ j) $8a + 2c + 30d = 2(4a + c + 15d)$

<u>2)</u>

Transform this term into a product. Do this by performing factorisation as shown in example a).

a) $27wx + 45x^2 = 9x(5x + 3w)$ b) $32x + 24y + 40z = 8(4x + 3y + 5z)$
c) $27b + 9c + 36e = 9(3b + c + 4e)$ d) $28b + 7e = 7(4b + e)$
e) $44a + 20b + 40e = 4(11a + 5b + 10e)$ f) $10z^2 + 20z = 10z(z + 2)$
g) $4vy + 16y = 4y(v + 4)$ h) $4cd + 20d = 4d(c + 5)$
i) $3xy + 36y = 3y(x + 12)$ j) $42a + 27b + 27d = 3(14a + 9b + 9d)$

<u>3)</u>

Transform this term into a product. Do this by performing factorisation as shown in example a).

a) $7y + 21 = 7(y + 3)$ b) $20w + 10y + 20z = 10(2w + y + 2z)$
c) $4wz + 16z = 4z(w + 4)$ d) $5bc + 35c = 5c(b + 7)$
e) $7y + 42 = 7(y + 6)$ f) $2bc + 20b = 2b(c + 10)$
g) $9wz + 36z = 9z(w + 4)$ h) $9bd + 27d = 9d(b + 3)$
i) $20c + 8d = 4(5c + 2d)$ j) $16b + 28e = 4(4b + 7e)$

<u>4)</u>

Transform this term into a product. Do this by performing factorisation as shown in example a).

a) $3yz + 27z = 3z(y + 9)$ b) $6x + 30 = 6(x + 5)$ c) $7w + 14 = 7(w + 2)$
d) $8vy + 32y = 8y(v + 4)$ e) $7wy + 42w = 7w(y + 6)$
f) $3y + 18 = 3(y + 6)$ g) $4bd + 40d = 4d(b + 10)$
h) $3vx + 24x = 3x(v + 8)$ i) $4xy + 24x = 4x(y + 6)$
j) $9wz + 18z = 9z(w + 2)$

Good Luck!