

# Worksheet

09/19/2019

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Problem quickname: 8231

1)

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)  $5xy + 45y^2 = 5y(x + 9y)$       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)

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

- a)  $27wx + 45x^2 = 9x(3w + 5x)$       b)  $32x + 24y + 40z = 8(4x + 3y + 5z)$       c)  $27b + 9c + 36e = 9(b + c + 4e)$   
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)  $42a + 27b + 27d = 9(2a + 3b + 3d)$

3)

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

- a)  $7y + 21 = 7(y + 3)$       b)  $20w + 10y + 20z = 10(w + y + 2z)$   
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)  $20c + 8d = 8(d + 2.5c)$       j)  $16b + 28e = 4(4b + 7e)$

4)

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!