

# 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)  $8d + 40 = 8(d + 5)$       b)  $5w + 40 = 5(w + 8)$       c)  $3x + 45 = 3(x + 15)$   
 d)  $6v + 12 = 6(v + 2)$       e)  $3d + 21 = 3(d + 7)$       f)  $2e + 50 = 2(e + 25)$   
 g)  $27b + 9c = 9(3b + c)$       h)  $6z + 18 = 6(z + 3)$       i)  $3a + 21 = 3(a + 7)$   
 j)  $6w + 45y = 3(2w + 15y)$

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2)

Transform this term into a product. Do this by performing factorisation.

- a)  $16b + 12c = 4(4b + 3c)$       b)  $40b + 8c + 8e = 8(5b + c + e)$   
 c)  $7b + 49c + 21d = 7(b + 7c + 3d)$       d)  $30b + 20c + 10d = 10(3b + 2c + d)$   
 e)  $40v + 20w + 10y = 10(4v + 2w + y)$       f)  $16a + 28d = 4(4a + 7d)$   
 g)  $24w + 8x = 8(3w + x)$       h)  $18b + 6e = 6(3b + e)$   
 i)  $12v + 4x + 4y = 4(3v + x + y)$       j)  $24w + 2x + 2z = 2(12w + x + z)$

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3)

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

- a)  $4x^2 + 12x = 4x(x + 3)$       b)  $3d + 21 = 3(d + 7)$   
 c)  $8de + 8e^2 = 8e(e + d)$       d)  $3d^2 + 45d = 3d(d + 15)$   
 e)  $8ac + 24c = 8c(a + 3)$       f)  $3x + 33 = 3(x + 11)$   
 g)  $18c + 3d = 3(6c + d)$       h)  $15w + 25y = 5(3w + 5y)$   
 i)  $5bc + 5c^2 = 5c(c + b)$       j)  $30b + 40c = 10(3b + 4c)$

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4)

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

- a)  $32b + 28d = 4(8b + 7d)$       b)  $6bc + 24b = 6b(c + 4)$   
 c)  $5de + 35e = 5e(d + 7)$       d)  $8y + 40 = 8(y + 5)$   
 e)  $7ab + 35b = 7b(a + 5)$       f)  $40v + 28y = 4(10v + 7y)$   
 g)  $26vx + 32x^2 = 2x(16x + 13v)$       h)  $24wz + 32z^2 = 8z(4z + 3w)$   
 i)  $10b + 40 = 10(b + 4)$       j)  $24w + 36x + 3y = 3(8w + 12x + y)$

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Good Luck!