

Worksheet

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Problem quickname: 8621

1)

Expand the product as shown in example a).

- a) $3(14x + y) = 42x + 3y$ b) $8w(5w + 3y) = 40w^2 + 24wy$ c) $9w(w + 2) = 9w^2 + 18w$
d) $2x(y + 1) = 2xy + 2x$ e) $8(3c + 2d) = 24c + 16d$ f) $8(5w + x + 6y) = 40w + 8x + 48y$ g) $3e(b + 14) = 3eb + 42e$
h) $3z(z + 9) = 3z^2 + 27z$ i) $8(v - 2) = 8v - 16$ j) $9(4x + 3y) = 36x + 27y$

2)

Expand the product.

- a) $5d(19d + 9c) = \underline{\hspace{2cm}}$ b) $7a(7a + 2b) = \underline{\hspace{2cm}}$
c) $9(11c + 5d) = \underline{\hspace{2cm}}$ d) $9y(8y + 7x) = \underline{\hspace{2cm}}$
e) $9x(x + 11) = \underline{\hspace{2cm}}$ f) $2x(x + 10) = \underline{\hspace{2cm}}$
g) $3d(16d + 19b) = \underline{\hspace{2cm}}$ h) $9v(v + 2) = \underline{\hspace{2cm}}$
i) $4x(x + 14) = \underline{\hspace{2cm}}$ j) $8b(b + 2) = \underline{\hspace{2cm}}$

3)

Expand the product as shown in example a).

- a) $4x(v + 23) = 4vx + 92x$ b) $9w(x + 11) = \underline{\hspace{2cm}}$
c) $4(b + 19) = \underline{\hspace{2cm}}$ d) $7(b + 11) = \underline{\hspace{2cm}}$
e) $9y(w + 3) = \underline{\hspace{2cm}}$ f) $4a(d + 24) = \underline{\hspace{2cm}}$
g) $5w(v + 19) = \underline{\hspace{2cm}}$ h) $4(d + 16) = \underline{\hspace{2cm}}$
i) $8v(x + 8) = \underline{\hspace{2cm}}$ j) $3e(b + 2) = \underline{\hspace{2cm}}$

4)

Expand the product as shown in example a).

- a) $10b(4b + 3d) = 40b^2 + 30bd$ b) $4(7w + 10x) = \underline{\hspace{2cm}}$
c) $4(7b + 3e) = \underline{\hspace{2cm}}$ d) $4(d + 4e) = \underline{\hspace{2cm}}$
e) $6e(b + 3) = \underline{\hspace{2cm}}$ f) $5d(d + 4) = \underline{\hspace{2cm}}$
g) $5d(b + 6) = \underline{\hspace{2cm}}$ h) $9x(w + 5) = \underline{\hspace{2cm}}$
i) $6y(y + 5) = \underline{\hspace{2cm}}$ j) $4(7a + 8b + 8c) = \underline{\hspace{2cm}}$

Good Luck!