Name: Class: Date:

Mathematics

Factorization of Simple Algebraic Expressions

Instruction: Use the distributive law and HCF to factorize the expressions below.

For instance: $12x^2y^3 - 8xy^5z = 4xy^3(3x - 2y^2z)$.

Your response is typed as: 4xy^3(3x-2y^2z).

1.) $pd + pe =$

2.) $14x - 7y =$

3.) $3ap - 3abq =$

4.) $5/2\, l^2m^5 + 3/2\, l^3m^2 =$

5.) $-24a^7b^6c^5 - 6a^3b^4c^6 + 30a^4b^5c^4d =$

6.) $\frac{2}{3} t^3 u^7 v^8 + \frac{8}{3} t^4 u^3 v^5 =$

7.) $-52\, l^3mn^4 + 78\, l^2m^3n^3 - 91\, l^4m^5n^7 =$

8.) $18x^3y^8z^{12} - 45x^5y^6z^9 - 81x^4y^7z^{10} + 135x^7y^8z^{15} =$

9.) $-\frac{3}{7} n^2p^2q^5r^3s - \frac{6}{7} p^3q^2r^5 + 1\frac{1}{7} p^4q^3r^4s^2 =$

10.) $34\, a^{-3}b^{-2}c^{-5} - 17\, a^{-4}b^{-1}c^{-8} =$

LIVEWORKSHEETS