Name: _____

1. List all the factors of the following terms.

   (a) $16mn^2$

   (b) $-20ab$

2. Find the highest common factor in the following sets of terms.

   (a) 24, 36   (b) $3x$, $12x^2$ (c) $8ab$, $12b^2$

   (d) $12x^2y$, $18xy^2$ (e) $-15ab^2$, $-30ab$

3. Factorise the following expressions by finding the highest common factor.

   (a) $8a + 12$

   (b) $9x - 27$

   (c) $36 + 24y$

   (d) $12a + 16b$

   (e) $24xy - 18x$

   (f) $20mn - 32m$

   (g) $-14 - 21p$

   (h) $-6a - 18$

   (i) $-8x^2 - 20x$

   (j) $4mn - n$

   (k) $-3a^2 - 15a$

   (l) $18xy - 40x^2$

   (m) $36ab + 20ab^2$

4. Factorise the following expressions.

   (a) $3(x + 2) + y(x + 2)$

   (b) $6(3 - n) - m(3 - n)$

   (c) $6n + 12 + np + 2p$

   (d) $7ab - 14a + bc - 2c$

   (e) $3x + 2xy + 6y + 9$

   (f) $4a + 6ab - 10 - 15b$

   (g) $8a^2 - 21b - 14ab + 12a$