

Master Maths 10 Worksheet 15
Factorisation 1

15

Name: _____

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

(a) $6m - 21$ (b) $15a + 5$

--	--

(c) $-6x - 9y$ (d) $-4a + 10b - 16c$

--	--

(e) $6x^2 + 14x$ (f) $8xy - 12yz$

--	--

(g) $18m^2n + 24mn^2$ (h) $-36xy^2 - 18y^2$

--	--

2. Factorise the following expressions.

(a) $6(x - 4) + y(x - 4)$

--

(b) $a(p + q) - b(p + q)$

--

(c) $4y - 20 + xy - 5x$

--

(d) $4a + 6b + ab + 24$

--

(e) $3m - 2pn + 6n - mp$

--

3. Factorise the following expressions

(a) $a^2 - b^2$ (b) $25 - h^2$

--	--

(c) $m^2 - 1$ (d) $16x^2 - y^2$

--	--

(e) $m^2 - 15$ (f) $4t^2 - 39$

--	--

(g) $49n^2 - 100p^2$

--

(h) $50a^2 - 32b^2$

--

4. Factorise and simplify the following expressions.

(a) $(x + 2)^2 - (x - 3)^2$

--

(b) $4(y - 5)^2 - 9(y + 6)^2$

--