

Factoring Homework 1Name KEY**Factor the Following Expressions**

1) $8a + 16$

$8(a+2)$

2) $9a - 15$

$3(3a-5)$

3) $-27c - 9d$

$-9(3c+d)$ or
 $9(-3c-d)$

4) $10v + 12u$

$2(5v+6u)$

5) $-6xy + 10xyz$

$-2xy(3-5z)$ or
 $2xy(-3+5z)$

6) $10w + 50wy - 20wyz$

$10w(1+5y-2yz)$

7) $12abc - 18ac + 14abc$

$2ac(6b-9+7b)$

8) $-32mnp + 16mnp + 4mp$

$4mp(-8n+4n+1)$ or
 $-4mp(8n-4n+1)$

9) $-15ac - 12ab + 4a$

$a(-15c-12b+4)$ or
 $-a(15c+12b-4)$

10) $125xyz - 50yz + 75yz$

$25yz(5x-2+3)$

11) Circle ALL the expressions that are factors of the following:

$32abc - 16ac + 48abc$

(a.) $2a$

(b.) $4b$

(c.) $12ac$

(d.) $2ac$

(e.) $8ac$

(f.) $8abc$

(g.) 4

(h.) 16

(i.) 32

(j.) ac