

Name : \_\_\_\_\_

## Factoring Binomials

MS2

Factorize each binomial.

1)  $90x^3y^2z^4 + 45xy^3z^2$

2)  $32a^3b - 48a^2b^2$

3)  $14s^5t^2 - 28s^4t^3$

5)  $70qr + 35q^2r^2$

7)  $15cd^5 - 27cd^3$

9)  $2y^2z^2 + 18yz^3$

10)  $r^2sq - psr^2$

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## Answer key

MS2

### Factoring Binomials

Factorize each binomial.

1)  $90x^3y^2z^4 + 45xy^3z^2$

$45xy^2z^2(2x^2z^2 + y)$

2)  $32a^3b - 48a^2b^2$

$16a^2b(2a - 3b)$

3)  $14s^5t^2 - 28s^3t^2q^2$

$14s^2t^2(s^3 - 2q^2)$

5)  $70qr + 35q^3$

$35qr(2 + r^2)$

7)  $15cd^5 - 27cd^3m^2$

$3cd(5d^4 - 9c)$

9)  $2y^2z^2 + 18yz^3$

$2yz^2(y + 9z)$

10)  $r^2sq - psr^2$

$r^2s(q - p)$

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