

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

## Factorize & Simplify

DS2

Factorize each expression and reduce to its lowest term.

1)  $\frac{r^2 - 28r + 115}{r^3 - 125}$

2)  $\frac{y^2 + 2y - 63}{7 - y}$

3)  $\frac{4b^2 - 36b + 80}{8b - 40}$

# PREVIEW

$\frac{64}{128}$

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5)  $\frac{9x^2 + 24x + 16}{x^2 + 15x + 20}$

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$\frac{(2p - 1)}{p - 11}$

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7)  $\frac{s^2 + 21s + 38}{s^2 - 361}$

8)  $\frac{5m^3 - 45m^2 + 70m}{10m^2 - 20m}$

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**Answer key**

DS2

**Factorize & Simplify**

Factorize each expression and reduce to its lowest term.

1)  $\frac{r^2 - 28r + 115}{r^3 - 125}$

$\frac{r - 23}{r^2 + 5r + 25}$

2)  $\frac{y^2 + 2y - 63}{7 - y}$

$-y - 9$

3)  $\frac{4b^2 - 36b + 64}{8b - 40}$

$\frac{b - 4}{2}$

5)  $\frac{9x^2 + 24x + 16}{x^2 + 15x + 20}$

$\frac{3(3x + 2)}{x + 13}$

7)  $\frac{s^2 + 21s + 38}{s^2 - 361}$

$\frac{s + 2}{s - 19}$

8)  $\frac{5m^3 - 45m^2 + 70m}{10m^2 - 20m}$

$\frac{m - 7}{2}$

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