

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

## Factorize & Simplify

ES4

Factorize each expression and reduce to its lowest term.

1)  $\frac{(u + 7)(u - 8)}{(u - 8)(u - 2)}$

2)  $\frac{3b - 9}{(b - 3)(b + 4)}$

3)  $\frac{q^5 - 2q}{5q^5 - 10q}$

5)  $\frac{6(t - 8)(t - 2)}{2t - 4}$

7)  $\frac{9n^2 + n}{(n + 1)(n - 2)}$

8)  $\frac{21v^3 + 6v^2}{3v^2(v + 1)}$

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**Answer key**

ES4

**Factorize & Simplify**

Factorize each expression and reduce to its lowest term.

1)  $\frac{(u + 7)(u - 8)}{(u - 8)(u - 2)}$

$\frac{u + 7}{u - 2}$

2)  $\frac{3b - 9}{(b - 3)(b + 4)}$

$\frac{3}{b + 4}$

3)  $\frac{q^5 - 2q}{5q^5 - 10q}$

$\frac{1}{5}$

5)  $\frac{6(t - 8)(t - 2)}{2t - 4}$

$3t - 24$

7)  $\frac{9n^2 + n}{(n + 1)(n - 2)}$

$\frac{9n}{n - 2}$

8)  $\frac{21v^3 + 6v^2}{3v^2(v + 1)}$

$\frac{7v + 2}{v + 1}$

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