

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

## Simplifying Expressions: Exponents

ES3

Simplify each expression.

1)  $(10k^{11})(3k^{-2})$

2)  $\frac{48a^{-5}}{4a}$

3)  $\frac{24p^{-10}}{15p^{-3}}$

4)  $(14a^{-5})(2a^{-5})$

5)  $(11x^3)(7x^{-12})$

7)  $\frac{3s^{-7}}{21s^{-2}}$

9)  $(2m^9)(7m^{-3})$

10)  $\frac{4y^{-6}}{16y^{-3}}$

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

**Answer key**

ES3

**Simplifying Expressions: Exponents**

Simplify each expression.

1)  $(10k^{11})(3k^{-2})$

**$30k^9$**

2)  $\frac{48a^{-5}}{4a}$

**$\frac{12}{a^6}$**

3)  $\frac{24p^{-10}}{15p^{-3}}$

**$\frac{8}{5p^7}$**

5)  $(11x^3)(7x^{-12})$

**$\frac{77}{x^9}$**

7)  $\frac{3s^{-7}}{21s^{-2}}$

**$\frac{1}{7s^5}$**

9)  $(2m^9)(7m^{-3})$

**$14m^6$**

10)  $\frac{4y^{-6}}{16y^{-3}}$

**$\frac{1}{4y^3}$**

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