

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

## Simplifying Expressions: Exponents

ES5

Simplify each expression.

1)  $(5t^{15})(6t^{-3})$

2)  $\frac{3p^{-4}}{66p^{13}}$

3)  $\frac{32x^{11}}{4x^{-5}}$

4)  $(2c^{-8})(7c^{-10})$

5)  $\frac{82q^9}{26q^6}$

7)  $(11c^{-17})(9c^{19})$

9)  $\frac{16v^{-8}}{8v^{-9}}$

10)  $(3w^2)(6w^2)$

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

**Answer key**

**Simplifying Expressions: Exponents**

ES5

Simplify each expression.

1)  $(5t^{15})(6t^{-3})$

**$30t^{12}$**

2)  $\frac{3p^{-4}}{66p^{13}}$

**$\frac{1}{22p^{17}}$**

3)  $\frac{32x^{11}}{4x^{-5}}$

**$8x^{16}$**

5)  $\frac{82q^9}{26q^6}$

**$\frac{41}{13}q^3$**

7)  $(11c^{-17})(9c^{19})$

**$99c^2$**

9)  $\frac{16v^{-8}}{8v^{-9}}$

**$2v$**

10)  $(3w^2)(6w^2)$

**$18w^4$**

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