

# What Did Mr. Cabinetmaker Say To Mrs. Cabinetmaker?

Simplify the expression. Write the letter of the exercise in the box above the answer.

- D**  $x^{-2} \cdot x^5$                       **E**  $x^2 \cdot x^{-5}$                       **F**  $x(x^{-2})(x^7)$   
**E**  $3x \cdot 4x^4$                       **D**  $7x(2x^{-3})$                       **T**  $(3x^{-3})(5x^{-4})(2x^{-5})$   
**I**  $(2x^{-3})(-5x^8)$                       **N**  $(8x^{-2})(x^{-4})$                       **E**  $-15x^8(3x^{-1})(x^{-4})$   
**O**  $(-9x)(4x^{-1})$                       **W**  $(-3x^{-5})(-10x)$                       **N**  $(-4x)(-4x^3)(-4x^{-12})$

$\frac{30}{x^4}$	$12x^5$	$\frac{-64}{x^5}$	$\frac{8}{x^6}$	$-45x^3$	$\frac{1}{x^3}$	$x^3$	$14x$	$\frac{30}{x^{12}}$	$-36$	$\frac{-45}{x^4}$	$x^6$	$-10x^5$	$\frac{-64}{x^8}$	$\frac{14}{x^2}$
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- R**  $(2a^4b^{-3})(9ab^8)$                       **O**  $(8a^{-3}b^2)(-ab^9)$                       **F**  $(3a^2b^5)(4a^{-4}b^9)(4ab^{-1})$   
**O**  $(-5a^{-1}b^9)(-4a^5b^{-2})$                       **R**  $(16a^5b^4)(3a^{-5}b^{-1})$                       **H**  $-6a^2b^2(-2b^5)(ab^{-7})$   
**S**  $ab^{-4}(12a^2b^{-3})$                       **U**  $-20a^{-7} \cdot a^6b^6$                       **O**  $(-5a^{-3}b^{-4})(-5a^6b)(-4a^{-15})$   
**E**  $(7a^{-1}b^{-4})(-7a^{-5}b)$                       **M**  $(0.5ab^{-2})(36a^{-4}b^{-15})$                       **R**  $(4ab^{-1})(-a^5b)(2b^8)$

$\frac{12a^2}{b^8}$	$\frac{18}{a^3b^{17}}$	$\frac{-100}{a^{12}b^3}$	$18a^5b^5$	$\frac{-49}{a^6b^3}$	$\frac{48}{ab^3}$	$12a^3$	$\frac{-8b^{11}}{a^2}$	$\frac{-20b^6}{a}$	$-8a^6b^8$	$\frac{12a^3}{b^7}$	$\frac{-100}{a^{10}b^4}$	$\frac{48b^{13}}{a}$	$20a^4b^7$	$48b^3$
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- E**  $(2 \times 10^5)(3 \times 10^2)$                       **O**  $(4 \times 10^{-3})(9 \times 10^7)$                       **V**  $(4.5 \times 10^{-9})(1.6 \times 10^2)$   
**S**  $(8 \times 10^5)(3 \times 10^2)$                       **H**  $(5 \times 10^{-4})(5 \times 10^{-3})$                       **R**  $(5.0 \times 10^5)(4.8 \times 10^{-16})$   
**E**  $(12,000,000,000)(0.000003)$                       **S**  $(0.0000008)(0.00000000000009)$

- U** The speed of light in space is  $3 \times 10^5$  km/s. It takes light  $5 \times 10^2$  seconds to travel from the sun to the earth. How far away is the sun (in km)?  
**L** The human body contains about  $3.2 \times 10^{-2}$  liters of blood for each pound of body weight. Each liter of blood contains about  $5 \times 10^{12}$  red blood cells. About how many red blood cells are in the body of a 100-pound person?

$2.4 \times 10^{-8}$	$3.6 \times 10^5$	$1.5 \times 10^8$	$2.4 \times 10^{-10}$	$1.6 \times 10^{15}$	$7.2 \times 10^{-19}$	$2.5 \times 10^{-6}$	$6 \times 10^7$	$1.6 \times 10^{13}$	$7.2 \times 10^{-7}$	$3.6 \times 10^4$	$2.4 \times 10^8$	$7.2 \times 10^{-16}$
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