

Polynomials II Final Exam Review - Key

• Multiplying and Dividing Monomials.

a) $8x^2$

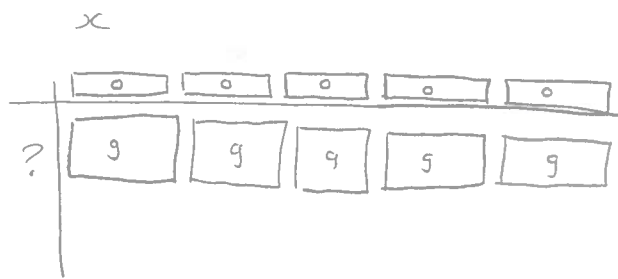
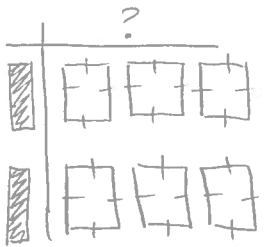
$9xy$



b) $24x^2 - 6x^2$ $28y^2$ $6x^2$

c) $A = 195.04 z^2$

d) $-3x$



e) $8x$ $25t$ $-1.58\bar{3}r^2s$ $-\frac{15}{2}p$ $\frac{1}{9}x$

f) $3x$

g) No the $14\text{cm} \times 50\text{cm}$ rectangle will not fit inside the 1st rectangle.

• Multiplying Polynomials by Monomials

a) $A = (8x + 16)(12x)$

b) $A = 96x^2 + 192x$

c) $-3x^2 + x$

$$d) 96x^2 - 32x \quad 262.4n - 918.4 \quad -\frac{7}{4}v - 56 \quad 48x^4y - 144x^3y^2 + 48x^2y^2$$

$$e) A = 192x^2 - 144 \quad P = 56x - 24$$

$$f) A = 144x^2 - 96x \quad A = 30\,960 \text{ units}^2$$

• Dividing Polynomials by Monomials

$$a) -x - 2$$

$$b) y + \frac{2.1}{y} \quad 2x + 8y \quad 2b - a + 1$$

$$c) 2x^2 + 3x \quad \text{truckloads}$$

$$d) 9x + \frac{9}{2}$$