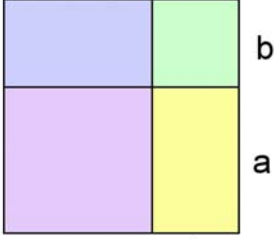
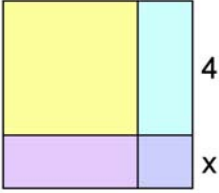
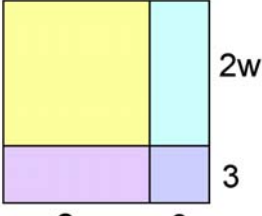


Special Products

1. Write a four-part expression for the area of the whole rectangle and simplify it.
Also write the area of each individual part in the picture.

 <p>a.</p> <p style="text-align: center;">a b</p> <p>$A = (a + b)(a + b) =$</p>	 <p>b.</p> <p style="text-align: center;">4 x</p> <p>$A = (4 + x)(4 + x) =$</p>	 <p>c.</p> <p style="text-align: center;">$2w$ 3</p> <p>$A = (2w + 3)(2w + 3) =$</p>
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2. Multiply.

a. $(x + 3)(x + 3)$

b. $(x - 5)^2$

c. $(c - 3)(c + 3)$

f. $(5y - 1)^2$

e. $(2b - 6)(2b + 6)$

h. $(w^2 + 2)^2$

j. $(5a - 3b)(5a + 3b)$

k. $\left(\frac{1}{3}x + 12\right)\left(\frac{1}{3}x - 12\right)$

m. $\left(\frac{2}{7}m - \frac{4}{7}n\right)^2$

n. $(3s + 2r)^2$

Write the special products:

$(a + b)^2 =$

$(a - b)^2 =$

$(a + b)(a - b) =$

i. $(10 - 3x)(3x + 10)$

l. $\left(\frac{5}{9}m + n\right)^2$

o. $(0.1s - 0.2r)^2$

3. Multiply.

a. $(x + 3)^2(x - 4)$

b. $(3n - m)(m - 1)(3n + m)(m + 1)$