Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Working with Expressions

Multiplying Functions

Independent Practice

1. Evaluate $g(p)∙h(p)$ by modeling or by using the distributive property.

$g\left(p\right)=(p-2)$ and $h\left(p\right)=(p^{3}+4p^{2}-2)$

1. Evaluate $f(x)∙g(x)$ by modeling or by using the distributive property.

$f\left(x\right)=(-3x+2)$ and $g\left(x\right)=(2x^{2}-5x-1)$

1. Jamie used the distributive property to find the product of $s(t)$ and $h(t)$. His work was marked incorrect. Identify Jamie’s mistake. What advice would you give Jamie to avoid this mistake in the future.



1. The figure below shows the penalty box and the goal box of a soccer field. The penalty box is the larger rectangle.



*Part A:* Find the area of the penalty box.

*Part B:* Find the area of the goal box.

*Part C:* Find the area of the penalty box not covered by the goal box.