Participant Handout

Invigorate, Engage, Inspire: Low-Floor, High-Ceiling Activities

The Coupon Task

Which coupon would you rather have and why?

Coupon A

Coupon B

30% off

\$30 off

The Shapes and Numbers Task

What do you notice? What do you wonder?



















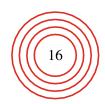




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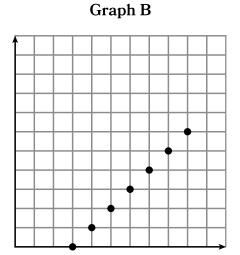


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The Graphs Task

Create two real-world situations that could be represented by the graphs.

Graph A



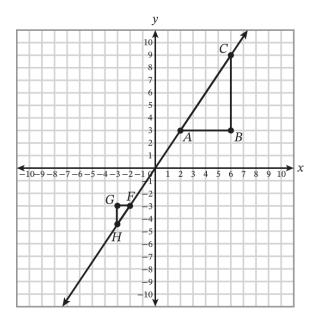
Design a Task: Lower the Floor

What number could be inserted in each set of parentheses to make the equation true?

$$()()()()=-3\frac{1}{4}$$

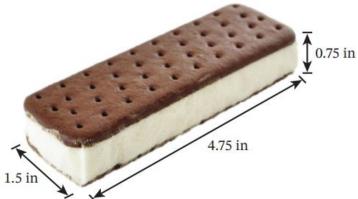
Design a Task: Raise the Ceiling

In the diagram, the right triangles have horizontal and vertical legs, and the hypotenuses lie on the same line. What is the value of $\frac{GH}{FG}$?



Design a Task: Lower the Floor and Raise the Ceiling

Design two different boxes in the shape of a right rectangular prism to hold 24 identical ice cream sandwiches. Determine the volume and surface area of each box. Which box is best? Why?



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