Ice Cream Cone

In this task, students will provide a sketch of a paper ice cream cone wrapper, use the sketch to develop a formula for the surface area of the wrapper, and estimate the maximum number of wrappers that could be cut from a rectangular piece of paper.

Ice Cream Cone (Microsoft Word): This file includes the task and the related information in Microsoft Word format.
Ice Cream Cone (PDF): This file includes the task and related information in PDF format.

General Information

Subject(s): Mathematics
Grade Level(s): 9, 10, 11, 12
Intended Audience: Educators , Students , Parents

Suggested Technology: Adobe Acrobat Reader, Microsoft Office

Freely Available: Yes

Keywords: surface area, area, radius, base, cone, modeling, Florida Standards

Instructional Component Type(s): Problem-Solving Task

Resource Collection: Illustrative Mathematics

Source and Access Information

Contributed by: Hannah Davis
Name of Author/Source: Hannah Davis
District/Organization of Contributor(s): Leon
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Aligned Standards

Name	Description
MAFS.912.G-MG.1.3:	Apply geometric methods to solve design problems (e.g., designing an object or structure to satisfy physical constraints or minimize cost; working with typographic grid systems based on ratios). ★