

The Cupcake Shop (MYP Year 1)

MAFS.standards Criterion D (Applying Mathematics in Real-Life Contexts) – Strands i, ii, iii, iv, v

Directions: You're running a cupcake shop! Determine how many ingredients you need and how much money you will need to start your business.

Achievement Level	Applying Mathematics in Real-Life Contexts	Task Specific Clarification
0	The student does not reach a standard described by any of the descriptors below.	You did not complete any area listed below
1 - 2	i Identify <i>some of</i> the elements of the authentic real-life situation. ii Apply mathematical strategies to find a solution to the authentic real-life situation with <i>limited success</i> .	<ul style="list-style-type: none"> ○ You only determined which cupcakes you were making ○ You did not complete Department Head piece ○ You did not apply mathematical strategies to determine how many ingredients you needed
3 - 4	i Identify the relevant elements of the authentic real-life situation. ii Select , <i>with some success, adequate</i> mathematical strategies to model the authentic real-life situation. iii Apply mathematical strategies to reach a solution to the authentic real-life situation. iv Describe whether the solution makes sense in the context of the authentic real-life situation.	<ul style="list-style-type: none"> ○ You determined which cupcakes you were making and listed their ingredients ○ You completed some of the Department Head part of the project ○ You applied some mathematical strategies to determine how many ingredients you needed ○ You completed some of the expenditures that you need to run your shop
5 - 6	i Identify the relevant elements of the authentic real-life situation. ii Select <i>adequate</i> mathematical strategies to model the authentic real-life situation. iii Apply the selected mathematical strategies to reach a <i>valid</i> solution to the authentic real-life situation. iv Describe the degree of accuracy of the solution. v Discuss whether the solution makes sense in the context of the authentic real-life situation.	<ul style="list-style-type: none"> ○ You determined which cupcakes you were making, listed their ingredients and determined how much you would need for 50 dozen ○ You completed Department Head part of the project ○ You applied most mathematical strategies to determine how many ingredients you needed ○ You completed most of the expenditures that you need to run your cupcake shop

7 - 8	<p>i Identify the relevant elements of the authentic real-life situation.</p> <p>ii Select <i>appropriate</i> mathematical strategies to model the authentic real-life situation.</p> <p>iii Apply the selected mathematical strategies to reach a <i>correct</i> solution.</p> <p>iv Explain the degree of accuracy of the solution.</p> <p>v Explain whether the solution makes sense in the context of the authentic real-life situation.</p>	<ul style="list-style-type: none"> ○ You determined which cupcakes you were making, listed their ingredients and determined how much you would need for 50 dozen ○ You completed Department Head part of the project and made it presentable ○ You applied all mathematical strategies to determine how many ingredients you needed ○ You completed all of the expenditures that you need to run your cupcake shop
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Student Name: _____ Date: _____

Score: _____

Recommended Area(s) for Growth:

Student Reflection: