

Maths in the Kitchen

Australian Curriculum V9.0 links for Years 5 and 6

Mathematics

- AC9M5M03: Measurement
- AC9M6M03: Measurement

Meet Jamie, the patisserie chef with a passion for sweet treats. Jamie recently got a digital watch to help him stay on track in the kitchen. He can use it to set alarms when he's ready for the next step in the recipe, but he needs to convert 12-hour time to 24-hour time to do this.

Instructions:

Let Jamie know what time his alarm needs to be set for each step if he wants to make sure the cupcakes are ready as soon as possible. He is baking chocolate cupcakes for a customer, and starting at 10am.

Task	12-Hour	24-Hour
What time will the cupcake batter be ready to go in the oven? <i>Hint. It takes 20 minutes to make the batter.</i>	10.20am	
What time will the cupcakes be ready to come out of the oven? <i>Hint. It takes 30 minutes for the cupcakes to bake.</i>	10.50am	
What time will the cupcakes be ready to decorate? <i>Hint. It takes 45 minutes for the cupcakes to cool down.</i>	11.35am	
What time will Jamie finish decorating the cupcakes? <i>Hint. It takes 1 hour and 30 minutes to decorate them.</i>	1.05pm	
What time will the cupcakes be boxed up and ready for the customer to collect? <i>Hint. It takes 15 minutes to box them up.</i>	1.20pm	

Fast Finishers: Come up with a recipe for chocolate cupcakes, draw a picture of your decorated cupcakes, and label it.

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Instructions:

A new order has come in for Jamie at 10am, and the customer needs it by 1.30pm at the latest. Can you create a timetable for Jamie to follow to ensure he has the cupcakes ready in time for the customer. *Hint. He might be able to do two tasks at once.*

Timings

- Jamie needs 20 minutes to prepare the cupcake batter.
- The batter takes 30 minutes to bake.
- The cupcakes must cool down for 45 minutes before Jamie decorates them.
- Jamie needs 30 minutes for lunch.
- It takes 1 hour and 30 minutes to decorate all the cupcakes.
- Jamie needs 15 minutes to box the cupcakes up for the customer to collect.
- If Jamie starts at 10:00am, what time will the cupcakes be ready for the customer to collect?

Task	Start Time	Finish Time

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Instructions:

A new order has come in for Jamie at 10am, and the customer needs it by 1.30pm at the latest. Can you create a timetable for Jamie to follow to ensure he has the cupcakes ready in time for the customer. *Hint. He might be able to do two tasks at once.*

Task	Start Time	Finish Time
What time does the cupcake batter need to go in the oven? <i>Hint. It takes 20 minutes to make the batter.</i>	10:00am	
What time will the cupcakes be ready to come out of the oven? <i>Hint. It takes 30 minutes for the cupcakes to bake.</i>		
What time will the cupcakes be ready to decorate? <i>Hint. It takes 45 minutes for the cupcakes to cool down.</i>		
What time should Jamie take lunch? <i>Hint: He needs 30minutes for lunch but he can do this at the same time as another task</i>		
What time will Jamie finish decorating the cupcakes? <i>Hint. It takes 1 hour and 30 minutes to decorate them.</i>		
What time will the cupcakes be boxed up and ready for the customer to collect? <i>Hint. It takes 15 minutes to box them up.</i>		

Fast Finishers: Come up with a recipe for chocolate cupcakes, draw a picture of your decorated cupcakes, and label it.