

MATHEMATICS

E.3

12. Leroy and his sister, Jane, are ordering sandwiches at a deli. The deli can make a sandwich using any combination of 7 different fillings and 3 different types of bread, as shown on the menu below.

Deli Menu

Types of Bread	Sandwich Fillings
<ul style="list-style-type: none">• Whole-Wheat• Rye• White	<ul style="list-style-type: none">• Turkey• Ham• Salami• Roast Beef• Cheese• Lettuce• Tomatoes

A. Leroy wants a sandwich with 4 different fillings on whole-wheat bread. How many different combinations of fillings for Leroy's sandwich are possible? Explain how you found your answer.

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12. *Continued.*

B. Jane wants a sandwich with 3 different fillings on any type of bread. How many different sandwich combinations are possible? Explain how you found your answer.