

Appendix 5.2A

Solutions

School Picnic – Part 1

Group	Statement	Quantity of Sandwiches Received by Each Student	
		Improper Fraction	Mixed Number
1. Mélanie	We received 10 sandwiches for the 6 members of our group.	$\frac{10}{6}$ of a sandwich or $\frac{5}{3}$ of a sandwich.	$1\frac{4}{6}$ sandwich or $1\frac{2}{3}$ sandwich.
2. Amon	Each member of the group received five one-third of a sandwich.	$\frac{5}{3}$ of a sandwich or $\frac{10}{6}$ of a sandwich.	$1\frac{2}{3}$ sandwich or $1\frac{4}{6}$ sandwich.
3. Abdul	It was delicious. There were 8 sandwiches for Jean, Pierre and I.	$\frac{8}{3}$ of a sandwich or $\frac{16}{6}$ of a sandwich.	$2\frac{2}{3}$ sandwiches or $\frac{24}{6}$ sandwiches.
4. John	The 9 members of our group equally shared 15 sandwiches.	$\frac{15}{9}$ of a sandwich or $\frac{5}{3}$ of a sandwich.	$1\frac{6}{9}$ sandwich or $1\frac{2}{3}$ sandwich.
5. Wue	Each member of our group received $3\frac{2}{3}$ sandwiches.	$\frac{11}{3}$ of a sandwich or $\frac{22}{6}$ of a sandwich.	$3\frac{2}{3}$ sandwiches or $3\frac{4}{6}$ sandwiches.
6. Arthur	We divided each sandwich into 6 pieces and each member received 16 pieces.	$\frac{16}{6}$ of a sandwich or $\frac{8}{3}$ of a sandwich.	$2\frac{4}{6}$ sandwiches or $2\frac{2}{3}$ sandwiches.
7. Hans	The sandwiches were divided in one-thirds. We each received 8 pieces.	$\frac{8}{3}$ of a sandwich or $\frac{16}{6}$ of a sandwich.	$2\frac{2}{3}$ sandwiches or $2\frac{4}{6}$ sandwiches.

Did each student receive the same amount of sandwiches? Explain your answer.

Not all students received the same amount of sandwiches. In groups 1, 2 and 4, each student received $1\frac{2}{3}$ sandwiches. Each member of groups 3, 6 and 7 received $2\frac{2}{3}$ sandwiches, while each student in group 5 received $3\frac{2}{3}$ sandwiches.