

- 1) Round each number to the nearest thousand to help find an estimated answer to each question.






a) $6999 + 2100$

c) $6149 - 1399$

b) $2456 + 7787$

d) $7503 - 1956$

- 2) a) Look at the table below. It shows the type and quantity of food that is used each day to prepare the meals for Twinkl Airlines. Round each number to the nearest 1000g to work out the approximate quantity of food prepared by the airline's chefs over 5 days.

Day of the Week	 Fish	 Meat	 Fruit and Vegetables
Monday	12 459g	25 009g	11 142g
Tuesday	25 307g	19 608g	15 602g
Wednesday	15 775g	7394g	12 304g
Thursday	27 465g	13 956g	27 192g
Friday	7009g	17 905g	13 577g

- b) What is the approximate quantity of food prepared by the chefs on Tuesday?
- c) What is the approximate difference between the amount of food prepared on Wednesday and on Friday?
- d) The approximate quantity of fruit and vegetables prepared on Friday and Saturday came to a total of 22 000g. Estimate the quantity of fruit and vegetables that was prepared on Saturday.

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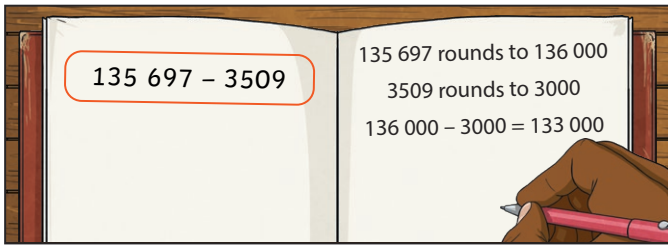
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- 1) Mikey has rounded each number in the calculation to the nearest thousand in order to work out the approximate answer. Spot and explain his mistake.



- a) Use the column method to work out the answer to the calculation below.



- b) The children were looking at the calculation above and using rounding to work out an approximate answer. Work out the answer to each child's calculation below. What place value did each child round to?



$$126\ 000 - 10\ 000$$



$$130\ 000 - 10\ 000$$



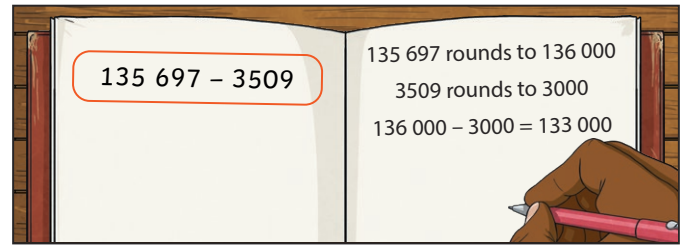
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- c) Whose is the closest approximation?
Whose calculation is the quickest to solve?

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- 1) The squads from Twinkl Football Academy will be flying to Scotland to play their pre-season friendly games.



There are 20 footballers in each squad and 5 squads will be going.



Cost of Plane Ticket	13.80
Cost of Lunch	6.92
Cost of Hotel Shuttle Bus	8.87
Bag Handling Fee	3.33

- a) What is the approximate cost for one footballer to go?
- b) What is the approximate cost for a squad to go?
- c) What is the approximate cost for the whole academy to go?
- d) Mr Adams, the Head Coach, has managed to get the plane tickets for half price. Calculate approximately how much it will now cost to take the whole academy on the trip.



- 2) Roll a 9-sided dice twelve times to make two 6-digit numbers. Find the sum of your two numbers.

Then, round your two original numbers to the nearest 10, 100, 1000 and 10 000 and add them again.

Which is the quickest to calculate? Which is most accurate? What place value should you round to in order to get the best compromise between speed and accuracy?

Discuss your findings in your group to see if everyone got the same result.

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