Estimate answers

1 Filip is working out 607 + 395

He rounds his numbers to the nearest hundred to estimate the answer.

a) Complete the sentences.

607 rounded to the nearest hundred is [600]

395 rounded to the nearest hundred is [400]

Filip's estimate for the answer is

[600] + [400] = [1,000]

b) Use column addition to work out the actual answer.

	Th	H	T	O
		6	0	7
+		3	9	5
		1	0	0	2

The actual answer is [1,002]

2 Alex is working out 7,958 − 6,103

Alex rounds her numbers to the nearest thousand to estimate the answer.

a) Complete the sentences.

7,958 rounded to the nearest thousand is [8,000]

6,103 rounded to the nearest thousand is [6,000]

Alex's estimate is

[8,000] − [6,000] = [2,000]

b) Use column subtraction to work out the actual answer.

	Th	H	T	O
	7	9	5	8
−	6	1	0	3
	1	8	5	5

The actual answer is [1,855]

3 Mr Howell writes a subtraction on the board.

795 − 503

I estimate the answer will be close to 200 because 700 − 500 = 200
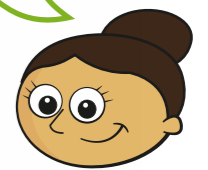
What mistake has Dora made?

Write a better estimate.

795 rounds to 800 not 700

800 − 500 = 300

4 **a)** Tom is estimating an addition calculation.

His estimate is 3,000 + 1,000 = 4,000

Write three possible additions Tom could be estimating.

E.g.

[2,999] + [999] = [3,998]

[3,076] + [1,200] = [4,276]

[2,621] + [1,334] = [3,955]

b) Dani is estimating a subtraction calculation.

Her estimate is £600 − £100 = £500

Write three possible subtractions Dani could be estimating.

E.g.

£601	− £107	= £494
£649	− £130	= £519
£550	− £72	= £478

5 Complete the table. Show your workings.

Question	Estimated answer	Accurate answer
3,970 km − 1,850 km	2,000km	2,120 km
7,076 − 852	6,000	6,224
7,076 − 652	6,000	6,424
1,994 ml + 1,994 ml	4,000ml	3,988ml

6 Whitney and Dexter are estimating the answer to 2,706 − 1,394

Whitney's estimate is 3,000 − 1,000 = 2,000

Dexter's estimate is 2,700 − 1,400 = 1,300

Whose estimate is more accurate? Why?

Dexter's because he has rounded to the nearest 100

7 A forest has 2,638 trees.

1,172 more trees are planted.

a) Use rounding to estimate the number of trees in the forest now.

3,800

b) Work out the actual number of trees in the forest.

3,810

c) How accurate was your estimate?