Estimate answers to calculations



There are 195 people on a train.

There are 308 people on a plane.

a) Complete the sentences to estimate the total number of people.

195 is close to

308 is close to

My estimate for the number of people in total is

+ =

b) Work out the total number of people on the train and plane.

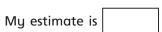
Was it a good estimate? How do you know?



Estimate the answer to 395 + 49

395 is close to

49 is close to



Work out the exact answer.

How close was your estimate? Talk to a partner.



3 For each question work out an estimate and the exact answer.

| Question | Estimate | Exact answer |
|----------------|----------|--------------|
| 705 – 194 | | |
| 511 – 97 | | |
| 187 + 203 + 19 | | |

- Why is it a good idea to estimate the answer to a calculation?
 Write one reason.
- Amir is working out 195 + 412

| | | Н | Т | 0 | |
|---|---|---|---|---|--|
| | | 1 | 9 | 5 | |
| + | | 4 | 1 | 2 | |
| | 5 | 1 | 0 | 7 | |
| | | | | | |

Use an estimate to show how you know Amir is wrong.

Mr Jones cycles a number of kilometres each day.

The table shows the distance he cycles.

| Monday | Tuesday | Wednesday | Thursday |
|--------|---------|-----------|----------|
| 189 km | 88 km | 215 km | 53 km |

Mr Jones planned to cycle 500 km in total by the end of Thursday.

- a) Has Mr Jones cycled as many kilometres as he planned? Give an estimate.
- b) How far has Mr Jones cycled in total?

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- 5 Amir is working out 195 + 412

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| | | | | | |

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- **a)** Has Mr Jones cycled as many kilometres as he planned? Give an estimate.
- b) How far has Mr Jones cycled in total?

7 A bottle is full of 813 ml of orange juice.

A glass has a capacity of 495 ml.

Can you pour two full glasses of juice? Give an estimate.

Explain your answer.



Whitney is estimating if she has saved enough money to buy a new dress and a new bike.





Whitney has so far saved £220

I have not saved enough. £65 is close to £100 and £153 is close to £200. That means I need about £300



Is Whitney correct?

Explain your answer.