## Estimate answers to calculations



0	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	
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My estimate for the number of people in total is

+	=
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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	

My estimate is

Work out the exact answer.

How close was your estimate? Talk to a partner.



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

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

<b>3</b>	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	٩	5	
+		4	1	2	
	5	1	0	7	

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

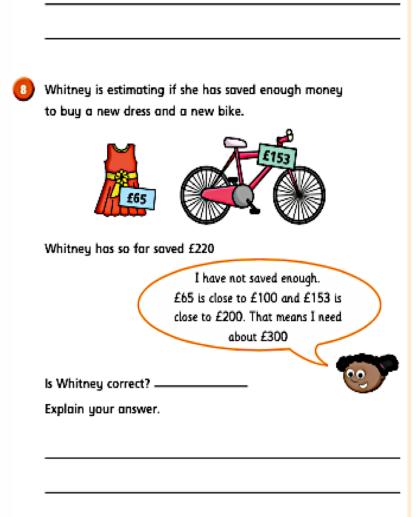
Mr Jones cycles some kilometres each day.
The table shows the distance he cycles.

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?



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.

## **Optional Extension Work!**



I estimate 143 — 95 will be 50 because I will subtract 100 from 150

Is this a good estimate? Why?

Are there any other ways he could have estimated?

## 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 200

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

400

49 is close to



My estimate is



Work out the exact answer.

How close was your estimate? Talk to a partner.



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

Question	Estimate	Exact answer
705 – 194	700-200 = <i>500</i>	511
511 – 97	500-l00=4 <i>0</i> 0	цц
187 + 203 + 19	200+200+20-120	409

Why is it a good idea to estimate the answer to a calculation?
Write one reason.

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0.00	roximat	يبلغ	C01	rredt.			
		J					

Amir is working out 195 + 412

		н	T	0	
		1	9	5	
+		4	1	2	
	5	1	0	7	

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

Amic's answer is too big

Mr Jones cycles some 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?

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.



Mo	500ml	+ 500ml	81.000mJ	
			,	

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? No

Explain your answer.

ELSS is dose to FLSD and ELS is dose to F30

£150 +£70 =£220 in the han sowed enough

## **Optional Extension Work!**



I estimate 143 — 95 will be 50 because I will subtract 100 from 150

Is this a good estimate? Why?

Are there any other ways he could have estimated?

Yes, because he found two numbers close to the original numbers.

He could have rounded to the nearest 10 and calculated.

140 - 100 (= 40)