Rose Maths

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



200

b) Work out the total number of people on the train and plane. 503

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	700-200 = 500	511	
511 – 97	500-100=400	<u>կ</u> կ	
187 + 203 + 19	100+200+20=320	409	

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

it the consider maken sense approximately cornect

5 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.

6 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?

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.

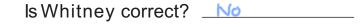
Whitney is estimating if she has saved enough money to buy a new dress and a new bike.



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



Explain your answer.

£153 is doser to £150 and £65 is doser to £70

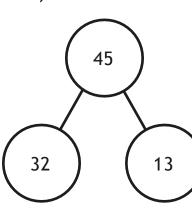


White Rose Maths

Check answers

Complete the fact family for each model.

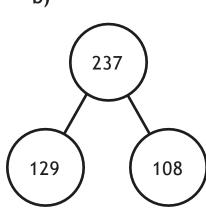




32

45

b)



129

237



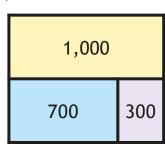
108

237

108

129

c)



700

300

1,000

300

700

1,000

1,000

700

300

700

1,000

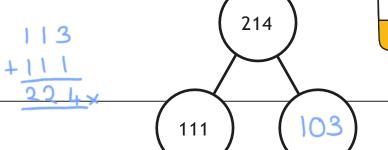
300

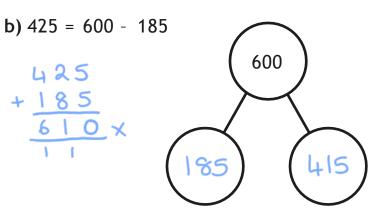
There is a mistake in each subtraction.

Use an addition to check each subtraction.

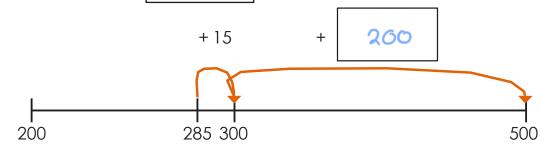
Complete the part-whole models.

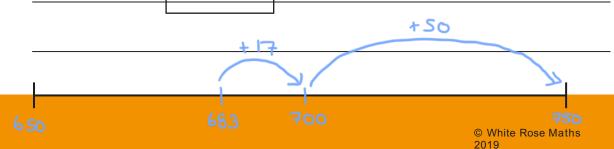






Show an addition on the number line that could be used to work out the subtraction.





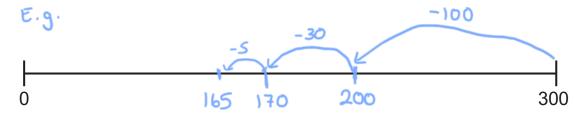


Teddy is working out an addition calculation.



a) What subtraction could Teddy do to check he is correct?

b) Draw the subtraction on the number line to show that Teddy is wrong.



c) What is the correct answer to Teddy's question?



5 Work out the problem and then check your calculation.

A crate contains 462 apples.

Some apples are used to make juice.

There are 187 apples left.

How many apples were used to make the juice?

275

Work out the problem and then check your calculation.





Kim reads a book.

The book has 200 pages.

She reads 75 pages on Monday and 39 pages on Tuesday.

How many pages does she have left to read?

86

7 Use the digit cards to make two 3-digit numbers.



Write an addition using your numbers.

What is the answer to your addition?

825

Ask a partner to check your addition.

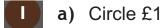
Talk about the different methods you can use.







Convert pounds and pence

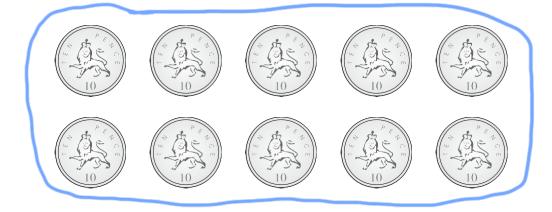




b) Circle £1

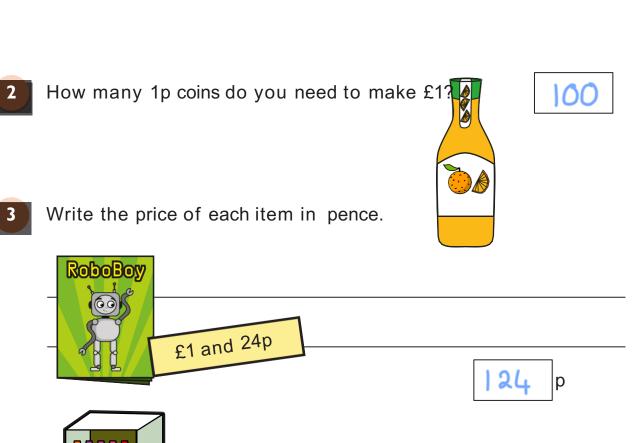


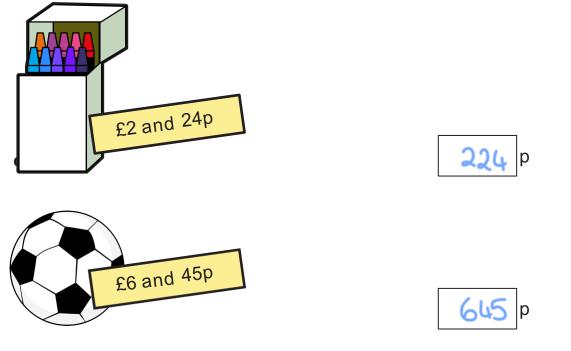
c) Circle £1



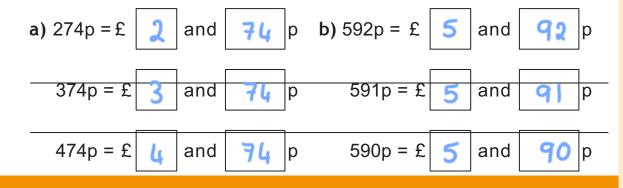
d) Circle £10







Write each amount in pounds and pence.



- **c)** 111p = £ and
- **d)** 405p = £ and
- Annie has some coins.



- a) How much money does Annie have?

b) What is 10p more?

and

What is 10p less?

c) What is 100p more?

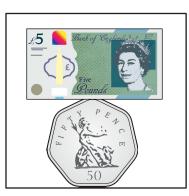
and

What is 100p less?

- and
- What amount is represented in each box?



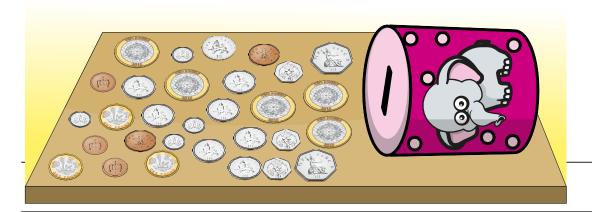




- and
- and 50

Eva empties out her money box.





How much money was in her money box?



How did you count the coins? Compare with a partner.



a) What is the fewest number of coins you can use to represent 315p?





b) Use 6 coins to make an amount that is more than £3, but less than £4. Draw your answer.



Compare answers with a partner.

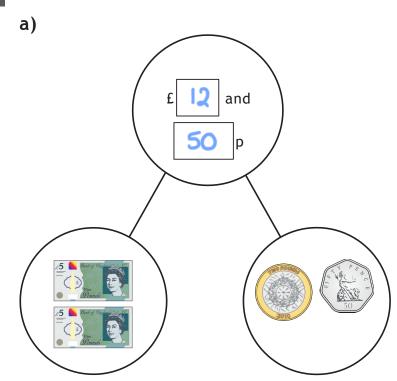


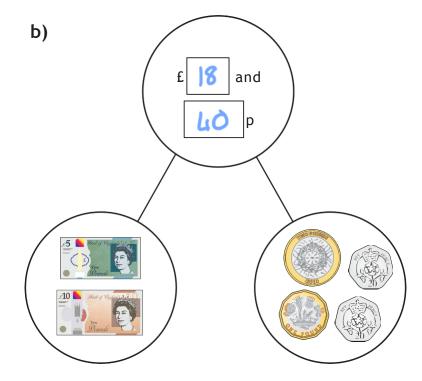


White Rose Maths

Add money

Complete the part-whole models.





2 Dora buys two birthday cards.





Complete the sentences to show how much money Dora spends.

$$f\left[\begin{array}{c} 2 \\ \end{array}\right] + f\left[\begin{array}{c} 2 \\ \end{array}\right] = f\left[\begin{array}{c} 4 \\ \end{array}\right]$$

Dora spends £ 4 and 35 p.

Complete the number sentences.

What do you notice?



Brett has £6 and 55p.

Aisha has £2 and 55p.

How much money do they have altogether?

£ 9 and 10 p

5 Annie and Alex are having pizza for lunch.

Tomato pizza £5 and 40p
Vegetable pizza £7 and 75p
Potato wedges £1 and 79p
Cheese bites £2 and 83p

a) Annie orders a tomato pizza and cheese bites.

How much does it cost?

£ 8 and 23 p

b) Alex has £10

She wants to buy potato wedges and a vegetable pizza.

Does she have enough money? _________

Explain your answer.



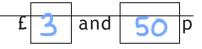
6 Mo buys a cap for £6 and 50p.

He also buys a key ring.

He spends £10 in total.

How much does the key ring cost?



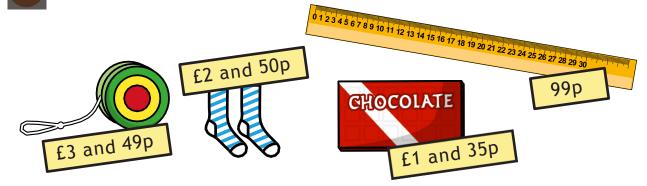


7 Complete the bar models.

£6 and 39p £2 and 99p £3 and 40p

b)	E	5 and 98p	
	£1 and	62 and 00n	
	99p	£3 and 99p	

8 Eva has £6 to spend.



What can Eva buy?

Various answers.

Compare answers with a partner.



