## Estimate answers

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

395 rounded to the nearest hundred is

Filip's estimate for the answer is

	+	=	

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

	Th	Н	Т	0	
		6	0	7	
+		3	9	5	

Th

ne actual answer is	ne	actual	answer	is	
---------------------	----	--------	--------	----	--

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



6,103 rounded to the nearest thousand is

3 rounaea	το	tne	nearest	tnousana	15	

Alex's estimate is

_	=	

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

	Th	Н	Т	0	
	7	9	5	8	
-	6	1	0	3	

The actual answ

ver is	
--------	--

Mr Howell writes a subtraction on the board.



I estimate the answer will be close to 200 because 700 - 500 = 200



What mistake has Dora made?

Write a better estimate.



a) Tom is estimating an addition calculation.

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

Write three possible additions Tom could be estimating.



b) Dani is estimating a subtraction calculation.

Her estimate is £600 - £100 = £500

Write three possible subtractions Dani could be estimating.

	]		
	-	=	

5 Complete the table. Show your workings.

Question	Estimated answer	Accurate answer
3,970 km - 1,850 km		
7,076 - 852		
7,076 - 652		
1,994 ml + 1,994 ml		

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?

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.

1			

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

c) How accurate was your estimate?





# Rose Maths

# Checking strategies

Circle the subtractions that can be used to check the addition 271 + 516 = 787

787 - 271

516 - 271

271 - 787

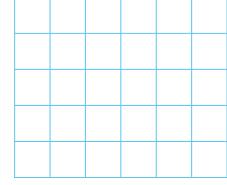
787 - 516

Circle the additions that can be used to check the subtraction 2,364 - 1,202 = 1,162

Use an inverse operation to check these calculations.

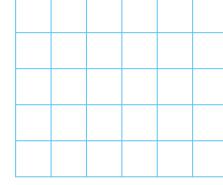
a)

)		Н	Т	0	
		3	7	1	
	+	4	6	5	
		8	3	6	

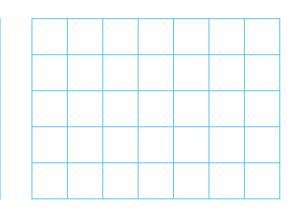


b)

	Н	T	0	
	5	6	7	
_	1	5	2	
	4	1	5	



c) Th Н Τ 1 1 0 3 6 1 0 1

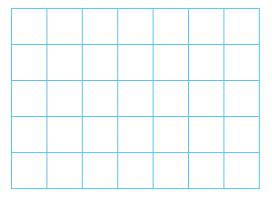


Complete the fact family for the bar model.

4,5	563
2,160	2,403

Teddy is working out 5,671 + 325

	Th	Н	Т	0	
	5	6	7	1	
+	3	2	5		
	8	9	2	1	



Teddy checks his calculation using the same addition. Is this a good idea? What mistake has Teddy made?

What addition should he do? Check Teddy's calculation.

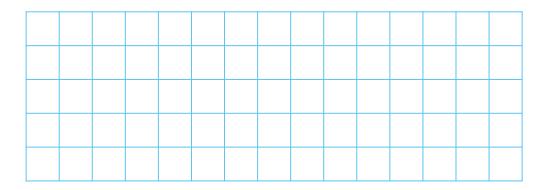


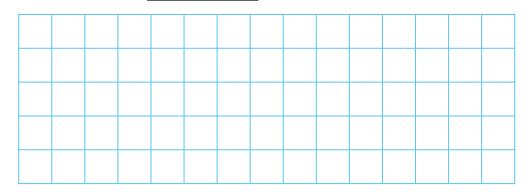
6 Match the inverse calculations.

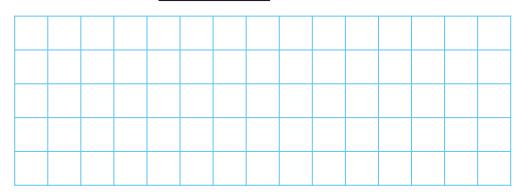
$$3,100 - 2,483 = 617$$

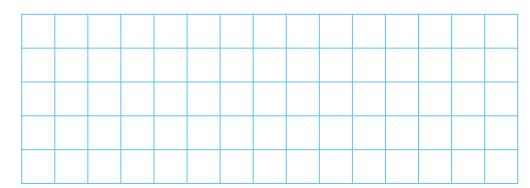
7 Complete the calculations.

Use inverse operations to check your answers.





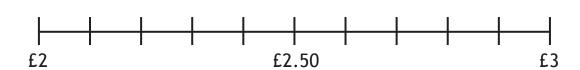




#### White Rose Maths

# **Estimating money**





- b) Circle the amounts that round to £3
- c) What do you notice about the amounts that round to £2 and the amounts that round to £3?
- 2 Here are some amounts of money.

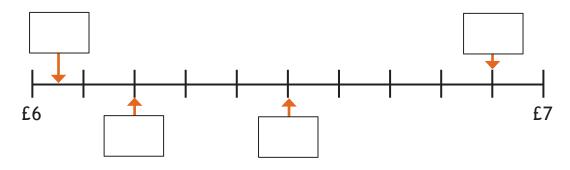
£6.90

£6.20

£6.50

£6.05

a) Use the amounts to label the number line.



b) Sort the amounts into the table.

Rounds to £6	Rounds to £7			
	(C) \	l Nt	nite Rose	e Maths 2020

a) Draw arrows to estimate where each amount is on the number line.



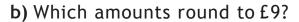
£9.00

£8.45

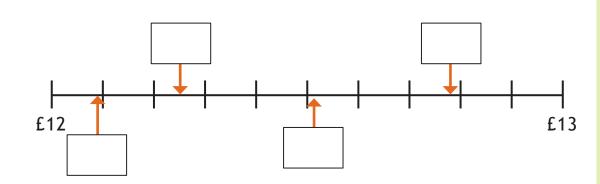
£8.89



Which amounts were difficult to place on the number line?







b) Which amounts round to £12?





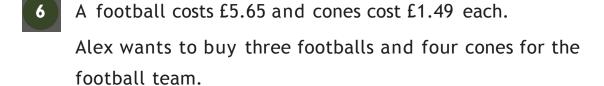
5 Eva buys a book for £4.85 and a pen for £2.70



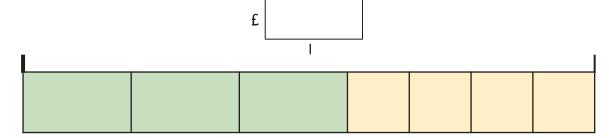
The total will be approximately £6 because £4 plus £2 is £6

What would be a more accurate estimate for Eva to make?

Explain your answer.



a) Round the amounts and complete the bar model to estimate the total cost.



b) Alex has this much money.











Does Alex have enough money?

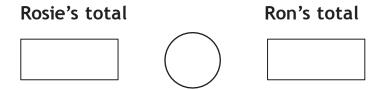
Talk about it with a partner.

Ron and Rosie have bought these items.



Round each amount to find an approximate total.

Write < , > or = to compare Ron and Rosie's totals.



- 8 Filip is thinking of an amount of money.
  - The amount rounds to £22 to the nearest pound.
  - In the pence, there is an even amount of ones and an odd amount of tens.
  - In the pence, the tens digit is less than the ones digit.

What amounts could Filip be thinking of?

Compare answers with a partner.



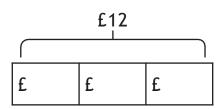


### White Rose Maths

### Four operations

**a)** Match the problems to the bar models.

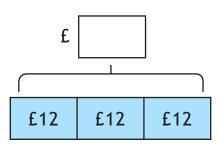
Nijah has £12. Her mum gives her £3 more. How much does she have now?



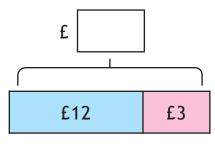
Nijah has £12. She buys a book for £3. How much does she have now?



Nijah has £12. She shares it between 3 of her friends. How much does each friend get?



Nijah has £12. Her friend has 3 times as much. How much does her friend have?



b) Complete the bar models. © White Rose Maths 2020

A child's ticket to the cinema costs £4.50 and an adult's ticket costs £7.95

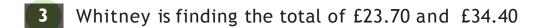
Dexter wants to know how much more an adult's ticket costs than a child's ticket.



I just need to add £7.95 to £4.50 to find out how much more.

Do you agree with Dexter?

Explain your answer.



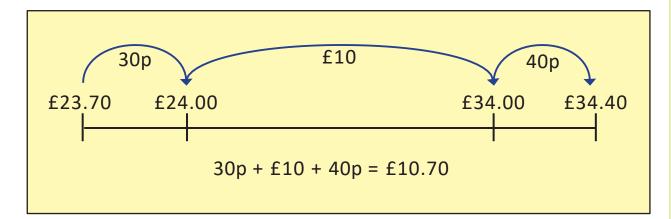


I can add £23 and £34 together to give £57 and add 70p and 40p together to give £1.10 and then combine the two parts. So the total is £58.10

Use Whitney's method to complete the additions.



Teddy uses a number line to find the difference between £23.70 and £34.40



Use Teddy's method to help you complete the sentences.

- a) The difference between £17.30 and £32.45 is
- b) The difference between £42.11 and £22.65 is

A shop sells these items.



a) Scott buys some marbles, a book and a cap.

He pays with a £20 note.

How much change does he get?

b) Esther buys three sets of headphones.

She has a voucher for £5 off the total.

How much does Esther need to pay?

_	
F.	

c) Dani buys a cap and some marbles.

Tom buys a book.

How much more does Dani spend than Tom?

£	
---	--

The board shows the cost of different rides at a theme park. Some of the prices are missing.



Use the clues to work out the missing prices.

- Frenzy costs one quarter of the price of Galaxy.
- Speedster costs
   double the price of
   Up 'n' Down.
- The combined cost of Galaxy and
   Up 'n' Down is£17.20

