

L.O. To apply a written method to addition and subtraction questions.

Monday

- (A)
- 1. 2747 + 579 =
- 2. 4885 + 2626 =

- 3. 3125 1650 =
- 4. 6372 5713=

- **B**
- 1. 16794
- 2. 53 479 + 35 635 =
- 3. 38 928+ 33 457

- 4. 56 434 27693=
- 5. 65341 29588 <u>-</u>
- 6. 31 620 -24 9 26

- (C)
- 1. 374 948 + 126 954 =
- 3. 759 486 + 472 594 =

535767 + 293 872=

- 4. 715 423 597 464 =
- 5. 860 317 283 718 =
- 6. 937054 739486=

- Challenge
- 1. 162 🗆 🗆
- + 88 7 7 9

- 2. 70950
 - 01 03 9
 - 43601

work out <
the missings
numbers?

Test 2

1. Nathan runs 724 metres and stops for a rest. He then runs a further 619 metres.

How many metres does Nathan run in total?



1 mark

2. Sahil has £700

He buys a laptop,
a monitor and a printer.





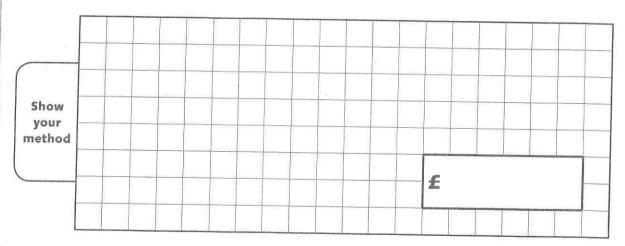


£373.99

£149.79

£85

How much money does Sahil have left?



2 marks

3. Write	the mi	ssing	numb	ers.										
42 is			; great		an 7									
72 is times greater than 9														
12 is		times	smal	ler th	an 4	8		-	٠.				2 m	narks
Не ра	has £6 num giv nys £1.7 that C	es hir 5 for	his bu								\(\text{\tin}\text{\tex{\tex	£2	.50	
								7.						
Show your method														ž,
			-										$\frac{1}{2}$ n	narks



L.O. To use a written method to solve multiplication problems.

Tuesday

(A)

1. $39 \times 6 =$

2. 183 x 17 =

3. $135 \times 23 =$

4. 549 x18=

B

1. 1536 × 34 =

2. 4872 × 29 =

3. 239.4 × 52=

 $4.1853 \times 63 =$

5. 394.5 × 48=

6. 16.93 x54=

(C)

1. 35 215 × 28 =

2. 14793 × 45=

3. 294.08 × 36 =

4. 53.826 × 19=

5. 1293.7 × 37 =

6. 3.89 x 356 =

Challenge

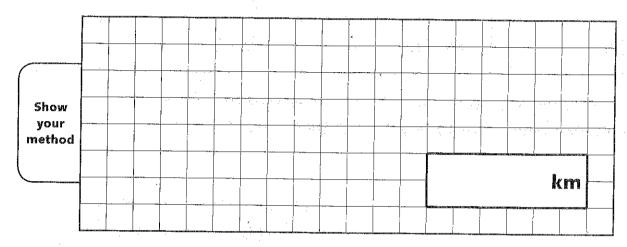
Each can of paint holds 2.35 litres. How much paint is needed to fill 346 cans?

Each	pipe	is	6.95m	long.	What	is	the total
	of 25			0			Tuesday

7. An airline pilot flies from London to Istanbul and back again. The pilot does this 14 times a month.

The distance from London to Istanbul is 2,516 km.

How far does the pilot fly each month?



2 marks

8.	Kara	says,	<i>'34</i>	is a	factor	of 2,108
Alle M	i tai a	Jay J,	<i>J</i> ,	is u	iactor	O(Z, IOO)

Explain why she is correct.		4	
		$(-1)^{2} = (222 - 4) + (222 - 2)$	
			1 mark
	4		1 11 14,1 1



L.O. To apply a written method to division guestions.

Wednesday

A

1.115 - 8 =

2. 369 ÷ 5=

3. 261 -9=

4. 104 - 6 =

B

1. 4585 - 3 =

2. 2843 : 6=

3. 3356 - 4=

4. 254.8 -4=

5. 11.72 - 2 =

6. 49.8 - 6=

(C)

1. 17477 - 7=

2. 40 789 : 5 =

3. 44 416 - 9 =

4. 28624 - 8=

5. 187.7 - 2 =

6. 9381.9:11=

Challenge_

There are eight ink cartridges in each pack. How many packs our be filled from 7538 cartridges?

Six classroom tables cost £173.70 altogether. How much does one table cost?

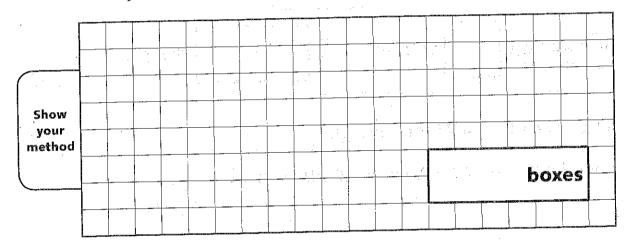
Wednesday

7. Write down all the common factors of 8 and 20

	2 marks

8. There are 16 Iollies in a box.
A shop sells 1,036 Iollies in one week.

How many whole boxes of lollies is this?



2 marks

weds



Reasoning and Problem Solving Four Operations Consolidation - Year 6



It's the Women's Football Cup Final at the end of this month and your fan club are planning a trip to support the local team.

There's a lot of organisation needed to ensure the trip is a success, and that the club get the best deal for their money.

You have been assigned the role of budget management; all spending is signed off by you. Get going, everyone's relying on you and there's heaps to do before the big match!

	e strip. The club has created a m d the orders are flying in; you ca	
	d 73 shirts and were quoted £1,02 rts! What will the new total price b	
	least £18 profit on each shirt. In you need to sell the shirts for?	
whistles and rattles for the	ssed to you by the club secretary fans to make a racket at the ga e on it. You need to sort out the I	me. Unfortunately, it got wet
Quote for Whistles @ 75p	2a. How many whistles were or	dered?
The	2b. How much does the order of	of rattles come to?
of raffles @ 96p	2c. What is the total quote?	



2c. What is the total quote?

Reasoning and Problem Solving Four Operations Consolidation – Year 6



3a. The tickets for the game cost £35.50 for an adult and half that for a child.

TICKE	You have 67 adults and 27 of would like to buy a ticket. W group?	children in your fan club who /hat is the total cost for the
TICKET		
3b. A new deal has come onli For every 10 adult tickets, you How much will you save?		ee!
,		
4. You have been given some How many bags will you need	merchandise; 35 rubbers an to share them both equally i	d 42 stickers. into each bag?
		2
5. The transport company have travel to get all 94 fans to the s	e been in touch. You will nee tadium.	ed to arrange train and bus
Train carriages seat 33 people or £2.50 per person.	and cost £54 per carriage,	
5a. How much will your train jo	urney cost?	
		5c. What are the total
5b. The coaches seat 25 people	e and cost £57 each.	travel costs?
low much will the coach cost?	?	

Reasoning and Problem Solving Four Operations Consolidation – Year 6

There's a hot meal and drink deal on at the stadium.

Usually pies cost £2.50 and drinks are £1.75.

Pie and a soft drink for £3.75



6. If half your group buy	the deal, how	much money wil	I they save alto	gether?
You receive a quote frogame.	om a hotel offer	ing to put everyo	ne up overnigh	t after the
7a. Check the quote b	elow, is it accur	rate? If not why n	ot?	
SleepWell Ho	otel			
94 rooms @ £23 e	ach £2,068			
Breakfast per per	son @ £9 £856			
Total Qu	iote: £2,904			
en e	and the second			
7b. What is the correct	calculation?			
Rooms	Breakfast	,	Total	
8. YOUR TEAM WON! C	ongratulations! d and drinks. Ye	! The FA have sent our award is £3,5(t a gift to cover 00!	the cost of the
8a. Does this cover you				
8b. How much profit or	loss does it lea	ıve you?		
8c. If you have a profit	, how could yo	u spend this mone	ey to benefit all	the fans?



Two and Two

How many solutions can you find to this alphanumeric?

Each of the different letters stands for a different number.

O M L

+ TWO

FOUR

Now try creating and solving some of your own alphanumerics. You might like to start with: ONE + ONE = TWO









Murder Mystery 6- Death in the supermarket.

The last customers left 3 hours ago. In the manager's room one week's takings were waiting for the security van to come the next day to deliver the thousands of pounds to the bank.

However, when the cleaners arrived early the next morning, they found the money gone and the night guard dead. However it appeared that the night guard witnessed the theft of the money. Keen eyed staff spotted coded notes scribbled on cardboard boxes round the supermarket and the clocks in the homeware department had been altered.

Quality you'd expect at prices you wouldn't Living well for less Super 6

Price cuts More reasons to shop at

Basics

The Inspector and his assistant Smithkins concluded that the night guard had hidden for about an hour after the theft before he was found and silenced. During this time he left clues.

The staff knew about the money and it appeared to be an inside job. There are 32 suspects. Each of the 5 clues eliminates half of the suspects. Can you help the Inspector and his assistant to find the murderer?

Check out the clues!



_
Σ
Ъ
ш
ш
Σ
ш
Σ
Σ
ш
Σ
ш
Σ
Ŀ
ш
Σ
Σ
Σ
F Fruit & Veg
F Pharmacy
ш
Σ
Σ
Σ
Σ
ш
M Supervisor
F Dry cleaning
Σ
ш
ш
Σ

ž

Clue 1 – Place Value

A series of numbers were found with a grid.

[&]quot;Yes, but they are not always in the same place," commented Smithkins, his assistant.

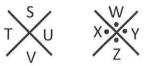
Number	Letter	Number	Letter
65223.4		5431	
965674.34		548793.48	
4518.73		953.26	
51764.83		500.73	
5431.6		43.57	
4851.34		549376.21	
954.3		7951.34	
9574.136		1524.93	
56274.34		1524.39	

5↓	3→	hundred	ten	unit	tenth	hundredth
Hund	red	Α	J	S	С	N
thous	and					
Ten		0	В	D	R	K
thous	and					
Thous	sand	Р		Т	Н	Υ
Hund	red	1	V	U	•	E
Ten		Q	:=:	F	L	Z
Unit			,	=.	W	G
tenth				M		Х

[&]quot;It looks like each number has a 3 & a 5 in it," observed the Inspector.

Clue 2—Turning the case around

	Α	В	С	_ <u>J</u>	K	L		Р	1	G
	D	Е	F	M•	Ň	•0	-	0		
•	G	Н	ı	P	å	R	-	P	E	



Rotation

Shape	Direction	How much	New shape	Letter
	clockwise	180°		
•	Anti-clockwise	90°		
	clockwise	90°		
•	clockwise	90°		
	Anti-clockwise	90°		
	Anti-clockwise	360°		
	clockwise	180°		
•	anticlockwise	180°		
•	clockwise	135°		
	Anti-clockwise	90°		
•	Anti-clockwise	90°		
•	clockwise	180°		
	clockwise	135°		
0	clockwise	270°		
•	clockwise	180°		
	clockwise	90°		
	clockwise	45°		
	Anti-clockwise	90°		
•	clockwise	180°		
	Anti-clockwise	270°		

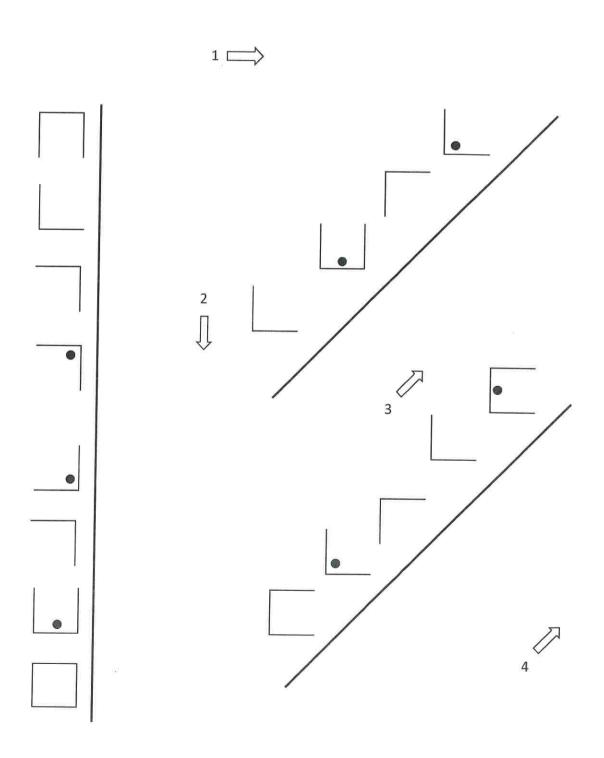
Clue 3—Something to reflect on!

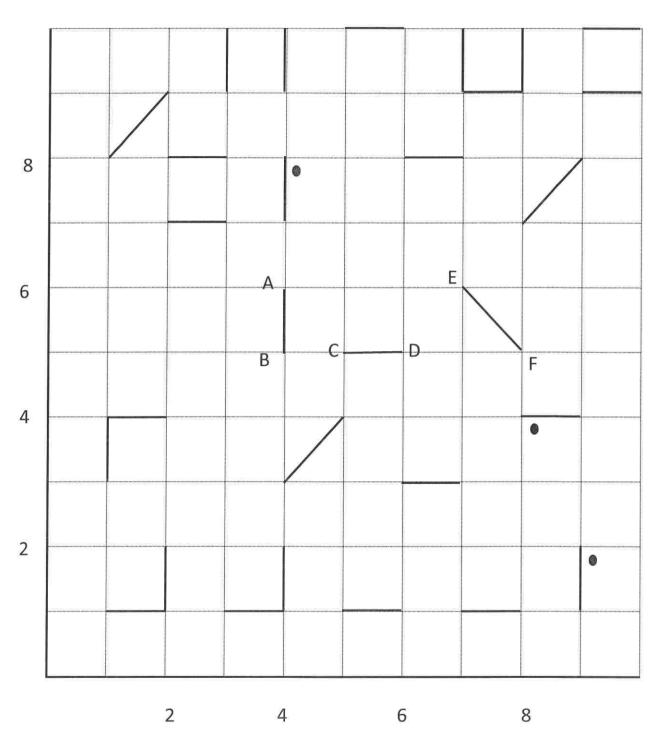
"There's 4 mirror lines here," commented Smithkins.

"Yes, but once we've got the new pigpen letters, it is important to keep the paper portrait to read them."

"It looks like the numbered arrows show the order of the words to make the sentence."







[&]quot;This looks like pig pen again but it doesn't make sense," said Smithkins.

[&]quot;It looks like we have to do some translation first," observed the Inspector, reading the instructions.

[&]quot;I did a little French at school – will that help?" enquired Smithkins.

"Not that sort of translation – this means moving something without rotating or resizing – sliding it really," commented the Inspector.

Translate

Line	x axis	y axis
AB	+1	+4
AB	+5	+4
AB	-1	+2
AB	+2	+2
AB	-2	-2
AB	+2	-2
AB	+4	-2
AB	-3	-4
AB	+1	-4
AB	+4	-4
CD	-2	+5
CD	+2	+5
CD	-1	+3
CD	-4	-2
CD	-4	-3
CD	-2	-3
CD	+4	-3
EF	-6	+4
EF	+2	+2
EF	-4	-2

Clue 5—Time is of the essence

Smithkins was wondering if it was lunch yet. He had forgotten his watch and felt embarrassed to ask the time. He wandered over to the Homeware department and looked at the clocks. To his surprise, none of them showed the right time. The batteries had been removed from every clock. They were lined up in a row. This is a diagram showing the clocks.

The Inspector was intrigued to hear of this and quickly concluded that it was a clue. After a long think, he decided that it was the minute hand which gave the clue. It was the old a = 1, b = 2 etc.

"But what about the fourth clock—9:55? There is no 55th letter in the alphabet," observed Smithkins.

"But how many minutes is it to the next hour?" asked the Inspector.

