

Section A

Written methods

Grade G → C

1. Fill in the missing numbers in these calculations.

(a)
$$12 + \boxed{} = 30$$

(c)
$$16 \times \boxed{} = 48$$

(Total 3 marks)

2. Fill in the boxes.

(a)
$$8 \times 4 =$$

(1)

(1)

(1)

$$(d) \quad 70 \qquad \div \qquad \boxed{ } = \qquad 10$$

(1)

(1)

(Total 5 marks)

3. Fill in the missing numbers in these calculations.

(1)

(b)
$$\times 9 = 108$$

(1)

(c)
$$-60 = 27$$

(1)

(d)
$$450 \div \boxed{} = 225$$

(1)

(Total 4 marks)

4.	Work		Number Concepts
	(a)	500 – 346	
		Answer	
	(b)	89 + 565	
		Answer	
			(1) (Total 2 marks)
5.	Fill in	n the missing digits to make the calculations correct.	
	(a)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
6.	Work	z out	(Total 4 marks)
0.	(a)	500 – 148	
		Answer	
	(b)	243×52	(2)

Answer

(3)

(3)

(Total 8 marks)

	(c)	903 ÷ 43	
		Answer	(3)
7.	W/o.ul		Total 8 marks)
7.	Work (a)	700 – 257	
		Answer	(2)
	(b)	372×53	(2)
		Answer	(3)
	(c)	972 ÷ 27	
		Answer	

8.	Work	x out	
	(a)	426 + 37 + 384	
		Answer	(2)
	(b)	800 - 472	
		Answer	(2)
	(c)	132×8	
		Answer	(2)
	(d)	0.2×0.4	
		Answer	
		(Tot	(1) al 7 marks)
9.	Work	k out	
	(a)	23.4 + 7.3	
		Answer	(1)
	(b)	9.6 - 3.9	
		Answer	/4>
St Pa	aul's Cat	tholic School	(1) 4

(c)	2.4×6		осоор и
	Answer		(1)
(d)	$125 \div 0.5$		
	Answer		(1)
(e)	2.76×3.4		
	Answer		
		(Tot	(3) tal 7 marks)
Success:		Target:	



Section B Negatives Gr

Grade $G \rightarrow E$

1. Work out

(a)
$$-3 + 5$$

Answer(1)

(b)
$$2 - (-7)$$

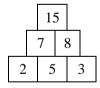
(c)
$$-5 + (-3)$$

(d)
$$6 \times (-4)$$

(e)
$$-10 \div (-5)$$

(Total 5 marks)

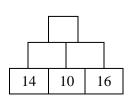
2. Here is a pyramid pattern.



Each number is found by adding the two numbers directly below. For example, 7 = 2 + 5

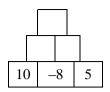
(a) Complete the following pyramid patterns.

(i)



(2)

(ii)



(3) (Total 5marks)

3. The map shows the temperatures at sunset in five cities in the British Isles.

				5300	
(a)	In which city is the temperature the lowest?		Sof Jam	2	
An	swer	(1)			
(b)	How much higher is the temperature in Dublin than the temperature in Edinburg	gh?			Edinburgh–2°C
		Belfast1°C	The Control of the Co		
		Dublin3°C	The second second		
	Answer°C (1)		E E	. ~)	
		Cardiff-4°C			London1°C
			2005	NE C	

(c) The temperature in Cardiff at midday is 10°C **higher** than it is at sunset. What is the temperature at midday in Cardiff?

Answer°C

(d) The temperature in Edinburgh at midnight is 3°C **lower** than it is at sunset. What is the temperature at midnight in Edinburgh?

Answer°C (1)

(Total 4 marks)

4. (a) The temperatures in a number of cities in Europe on one day in December were

11°C 5 °C –2°C –7°C 8 °C 14°C –3°C

(i) Write down the coldest of these temperatures.

Answer°C (1)

(ii) Write down the warmest of these temperatures.

Answer°C (1)

	(b)	The temperature recorded in Helsinki, in Finland, was −3 °C at 2pm.				
		At midnight this temperature had fallen by 8 °C.				
		What was the temperature at midnight?				
		Answer		. °C		
				(2) (Total 4 marks)		
5.	The	midday temperatures at different ski resorts are shown.				
	(a)	What is the difference in temperature between Aspen and Wengen?	Aspen Breckenridge Wengen Soldeu	-1°C -12°C 9°C 5°C		
		Answer°C (1)	La Plagne	-3°C		
	(b)	The temperature at midnight in Soldeu is 7 degrees low What is the temperature in Soldeu at midnight?	er than the temperature at	t midday.		
		Answer		°C		
				(1) (Total 2 marks)		
6.	The	table shows the midday temperatures of five cities on a S	unday in January.			
	(a)	Which city was the warmest?	City	Temperature (°C)		
Ans	wer		Copenhagen	-2		
		(1)	Geneva	0		
	(b)	Which city was the coldest?	London	3		
Ans	wer		Moscow	-4		
		(1)	Paris	-1		
	(c)	How much warmer was Paris than Moscow?				
		Answer		°C (1)		
	(d)	On Monday, the midday temperature in Copenhagen was Sunday.	as 3°C higher than it was			
		What was the midday temperature in Copenhagen on M	Ionday?			
		Answer		 °C		

(1) (Total 4 marks) St Paul's Catholic School

(Total 2 marks)

7. The temperature at midnight was recorded at a weather station in Scotland during a week in February. Five of these temperatures are shown in the table.

Day	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Temperature (°C)	2	-4		-1	-4	-8	

	Which of these five temperatures was the warmest?	(a)
(1)	Answer°C	
	On Wednesday the temperature at midnight was 3 degrees lower than that recorded on Tuesday.	(b)
	What was the temperature at midnight on Wednesday?	
(1)	Answer°C	
` ,	e) On Sunday the temperature at midnight was 5 degrees higher than that recorded on Saturday.	(c)
	What was the temperature at midnight on Sunday?	
(1)	Answer°C	
tal 3 marks)		(a)
	What was the temperature at midnight?	
	Answer°C	
(1)	At 2 am the temperature was –4 °C. By midday the temperature had risen by 10 °C.	(b)
	What was the temperature at midday?	

8.

9. The table shows the highest and lowest temperatures recorded in five cities.

	Birmingham	Edinburgh	London	Manchester	Newcastle
Highest temperature	27°C	25°C	31°C	29°C	26°C
Lowest temperature	−2°C	−7°C	1°C	−2°C	−5°C

(a)	Which city recorded the biggest difference between its highest and lowest temperatures?			
	Ans	swer(1)		
(b)	The difference between the highest and lowest Write down the names of these two cities.			
	Answer	and		
		(10001 2 100110)		
Success:	٦	Target:		



Section C Order of Operations

Grade F / E

1.	wor.	K out $6 \times 15 + 4 \times 15$			
			•••••		
2.		Work out $12 \times 18 - 10 \times 18$			(Total 2 marks)
			Aı	nswer	(2)
3.	(a)	Work out 12 – (3 + 7)			(Total 2 marks)
		Answer			(1)
	(b)	Put brackets in each of these calculation	ons to	make them correct.	
		(i) $18 - 4 - 2 = 16$			
		(ii) $3 + 4 \times 5 = 35$			
		(iii) $20 \div 5 - 3 = 10$			
					(3) (Total 4 marks)
4.	Inser	rt brackets on the left-hand side of each	of the	following to make them correct.	
	(a)	$3 + 5 - 2 \div 3 = 2$			(1)
	(b)	$3 + 5 - 2 \div 3 = 4$			(1) (Total 2 marks)
					(Total 2 marks)
Suco	cess:			Target:	



Section D

Deriving Unknown Facts

Grade C

I ICA THA CALCULAT	an
1. Use the calculate	

	294	\times 4.57 = 1343.58	
to fir	nd the value of		
(a)	294 × 0.00457		
		Answer	
(b)	134358 ÷ 29.4		(1)
		Answer(Total 2 ma	(1) arks)
You	are given that	$372 \times 51 = 18972$	
Use	this information to	find the answers to	
(a)	3720 × 51		
		Answer	(1)
(b)	18 972 ÷ 5.1		
		Answer	(1)
(c)	372 × 102		
		Answer	(1)

Success:

2.

Target:

(Total 3 marks)

Teacher Assessment



Grade E → C

Section E Problem Solving

			Arnie orders a burger and fries How much does this cost?	BURGER £1 35	FRI	ES	DRINI 62n
Ansv	ver£.			L1.33) (33	P	UZP
			(1)				
		(ii)	He pays with a £5 note. How n	nuch change does he ş	get?		
				Answer £			(1)
	(b)		Meal Deal' gives a burger, fries ar much cheaper is this than buying		·?		
			Aı	nswer		pence	
						(Total	(2) 4 marks)
2.	Mr C	Gordon	n pays for a family holiday.				
	(a)	Com	plete his bill.				
			Description	C	lost		
		2 a	dults @ £540 each				
		3 cl	hildren @ £250 each				
		Hir	re of car for 10 days @ £20 per da	ny			
				Total £			
							(3)
	(b)		Gordon pays £240 by cheque for scheque below shows how he con	-	y.		
		_	A Bank Limited nchester M15 6EX		<u>Date</u>	95-3 12345 5th June 2	
		Pay	y Travel tours				
			ount Two hundred and	forty pounds		£ 240.00)
						K Gor	don

Mr Gordon also pays for the family holiday by cheque. Complete the cheque below in words **and** figures.

AQA Bank Limited Manchester M15 6EX	95-31-18 123456789
	Date 5th June 2006
Pay Travel tours	_
Amount	£
	K Gordon

(2) (Total 5 marks)

3. This table shows the results of five football teams after they have each played ten games.

Team	Games played	Games won	Games drawn	Games lost
Arsenal	10	4	1	5
Chelsea	10	3	5	2
Fulham	10	4	3	3
Tottenham	10	3	4	3
West Ham	10	2	6	2

Three points are awarded for each game won.

One point is awarded for each game drawn.

No points are awarded for each game lost.

Which team has the most points?	
You must show all your working.	

4. A youth club hires a disco for £70. Tickets for the disco cost 80p each. They sell 140 tickets.

5.

Friday night DISCO Tickets 80 p

How	much profit does the youth club make?
•••••	
•••••	
•••••	Answer £
	(Total 3 marks)
A sch	nool band is going on a concert tour to Paris.
(a)	The concert programme is translated into French at a cost of £1.80 The programme has 45 words. Calculate the cost per word of the translation.
	Answer pence (2)

(b) The band is performing the concert at three places. Posters are printed for the concerts.

	Number of small posters	Number of large posters
1st concert	100	20
2nd concert	200	50
3rd concert	0	10

	war f
Calculate the total cost of prin	ting the posters.
sman posters cost op each.	Large posters cost 12p each.
Small posters cost 8p each.	Large posters cost 12p each.

(Total 5 marks)

(3)

(a)	How many cos	aches are needed?		
(4)	Tio Williamy Co.	aches are needed.		
	••••••			
	••••••			
			Answer	
(b)	How many sea	ats will be empty?		
(-)				
	••••••			
	••••••			
			Answer	
				(Total 3 ma
		ELECTRICITY	BILL	
	Time	Cost per unit	Units used	
	Day	Cost per unit 10p	600	
		Cost per unit		
	Day Night e uses this inform	Cost per unit 10p 4p mation to work out her el	600 200	
Wor	Day Night e uses this inform	Cost per unit 10p 4p mation to work out her elemont of her bill.	600 200	
Wor	Day Night e uses this informs out the total ar	Cost per unit 10p 4p mation to work out her elemont of her bill.	600 200	
Wor	Day Night e uses this informs out the total ar	Cost per unit 10p 4p mation to work out her elemont of her bill.	600 200	
Wor	Day Night e uses this informs out the total ar	Cost per unit 10p 4p mation to work out her elemont of her bill.	600 200	
You	Day Night e uses this inform k out the total ar must show all y	Cost per unit 10p 4p mation to work out her elemont of her bill. your working.	600 200	
You	Day Night e uses this inform k out the total ar must show all y	Cost per unit 10p 4p mation to work out her elemont of her bill. your working.	600 200 Dectricity bill.	

(Total 2 marks)

8. A supermarket sells boxes of the same brand of teabags in three different sizes.

9.

Medium Large
Work out the cost of 20 teabags for each size.
Answer Small p Medium p Large p (Total 4 marks)
Here is a method for multiplying a whole number by 101. Step 1: put two zeros onto the right hand side of the number. Step 2: add on the original number.
Use an example to show why this method works.

(3)

(Total 6 marks)

10.	The 1	icket prices for a rive	r cruise are			
		Adu				
		Chi	ld £5			
		Fam	nily £20			
	A fai	mily ticket can be used	d for up to 2 adults	and up to 3 children.		
	(a)				buying a family ticket?	
				Answer £		. (2)
	(b)	A family of 1 adult they could pay.	and 4 children go o	on the river cruise. W	ork out the cheapest pric	ee
				Answer £		. (2)
					(T)	Cotal 4 marks)
11.	(a)	A box of pencils cos Mr Hebson orders 4 Find the total cost.		thematics Departmen	nt.	
				Answer £		. (3)
	(b)	Pens are sold in box Mr Hebson requires How many boxes do	250 pens.	r?		
				Answer	boxes	8

Mike then reduced the selling pric He was left with 24 unsold books		ace each.			
Find the total amount Mike received from selling the books.					
	Answer £	(Total 4 marks			
Matthew is investigating the costs	of using a mobile phone.				
He finds that there are two method	ls of paying for his phone calls.				
Contract	Pay as you go				
£14 a month fixed charge	No fixed charge				
30 minutes of free calls	No free minutes 40p per minute				
then 10p per minute	400 per minute				
Matthew expects to spend 150 min		onth.			
Which method is cheaper, 'Contra	nutes using a mobile phone each m	onth.			
	nutes using a mobile phone each m	onth.			
Which method is cheaper, 'Contra	nutes using a mobile phone each m	onth.			
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Which method is cheaper, 'Contra	nutes using a mobile phone each m				
Which method is cheaper, 'Contra You must show your working.	nutes using a mobile phone each m act' or 'Pay as you go'? Answer				
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Which method is cheaper, 'Contra You must show your working.	nutes using a mobile phone each m act' or 'Pay as you go'? Answer				