Q1. Frankie says that $15 - 3 \times 2 = 24$.

Frankie is wrong. Explain why.

(Total 1 mark)

Q2. (a) Write these numbers in order of size. Start with the smallest number.

-5 3 -1 0 8

.....

(1)

(b) Work out $7 + 3 \times 5$

(1) (Total 2 marks)

Q3. (a) Write the number three thousand four hundred and twenty five in figures.

.....

(1)

	(b)	Write dow	n the v	alue of	4 in the	numbe	r 2840.	
								 (1)
	(c)	Write the r	numbe	r 279 to	the nea	arest hu	ndred.	
								 (1) (Total 3 marks)
Q4.		Here is a lis	t of nui	nbers.				
		3	8	11	25	33	41	
	Wri	te down a ni	umber	from the	e list wh	ich is		
	(a)	an even n	umber,					
								 (1)
	(b)	a square r	numbei	- ,				
								 (1)
	(c)	a multiple	of 11					
								 (1) (Total 3 marks)

Q5. There were 34 coins in a bag. Jim took 15 coins out of the bag.

Rose put 17 coins into the bag.

How many coins are now in the bag?

.....

(Total 2 marks)

Q6. The table shows temperatures at midnight and midday on one day in five cities.

City	Midnight temperature	Midday temperature
Belfast	−3 °C	4 °C
Cambridge	−1 °C	4 °C
Edinburgh	−7 °C	−1 °C
Leeds	−6 °C	3 °C
London	−2 °C	6 °C

(a) Which city had the lowest midnight temperature?

.....

(1)

(b) How many degrees higher was the midnight temperature in Cambridge than the midnight temperature in Leeds?

°C

(1)

(2)

(1)

(1)

(c) Which city had the greatest rise in temperature from midnight to midday?

..... (1) (Total 3 marks)

Q7. (a) Work out 400 – 193.

.....

(b) Work out 4 - 9.

.....

.....

.....

(c) Work out -3×5 .

(d) Work out 300 ÷ 50.

(1) (Total 5 marks) **Q8.** At midnight the temperature was -9° C. By 10 am, the temperature had risen by 8° C.

(a) Work out the temperature at 10 am.

.....°C

(1)

At midday the temperature was 5°C.

(b) Work out the difference between the temperature at midnight and the temperature at midday.

.....°C

(2)

On another day

the temperature at midnight was -7° C, the temperature at 10 am was -1° C and the temperature at midday was 3° C.

Jenny says that, on this day, the temperature at 10 am is halfway between the temperatures at midnight and at midday.

(c) Is Jenny correct?You must give a reason for your answer.

.....

(2) (Total 5 marks)

Q9.		(a)	V	Vrite	the r	າumbe	er thr	ee th	nousa	and o	one h	undre	ed	and nine in figures		
																(1)
	(b)	Wr	rite	e dov	/n the	e valu	e of t	he 6	in the	e nun	nber :	23.469	9			
																(1)
	(c)	Wr	ite	the	numl	ber 42	261 co	orrec	t to th	ne ne	arest	hund	red	1.		
																(4)
															(Total 3 mark	(1) (s)

Q10. Work out 342 × 24.

.....

(Total 3 marks)

Q11. (a) Work out 90 ÷ 10

.....

(1)

(b) Write these numbers in order of size. Start with the smallest number.

2.8 4.71 0.6 13.4

.....

(1)

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7

(c) Write $\overline{10}$ as a decimal.

.....

(1) (Total 3 marks)

Q12. Beth is planning a trip for a group of 36 people. The group can go to a theme park **or** to a concert.

If they go to the concert, they will go by train. If they go to the theme park, they will go by coach.

Beth has information about the costs.

Theme Park Ticket Prices Coach Hire £260 24 seats £9 per person 40 seats or £6.50 per person £320 in a group of 10 or more people 54 seats £410 **Concert Ticket Price** Return Train Fares £7.50 £8.25 each or £26.50 for each group of 4 people

What is the least possible total cost of the trip? You must show all your working.

(Total 5 marks)

Q13. Jemilla goes swimming.

She swims 64 lengths of a swimming pool.

Each length is 25 m long.

(a) Work out how far Jemilla swims.Give your answer in kilometres.

..... kilometres

(3)

The swimming pool is 25 m long by 10 m wide by 2.5 m deep.

(b) How many litres of water does it contain?

..... *l*

(3) (Total 6 marks)

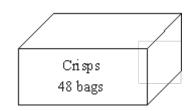
##

Jan bought 3 boxes of Salt 'n' Vinegar crisps and 2 boxes of Ready Salted crisps to sell at the Year 11 disco.

There are 48 bags of crisps in each box.

At the end of the disco there were 25 bags of crisps left.

How many bags of crisps were sold at the disco?



..... Bags

(Total 3 marks)

Q15. The table gives information about the temperatures at midnight on New Year's Eve in 5 capital cities.

City	Temperature
London	–3°C
Madrid	7°C
Oslo	–11°C
Washington DC	1°C
Wellington	14°C

In Oslo, the temperature dropped by 8 degrees from midday to midnight.

(a) What was the temperature in Oslo at midday?

.....

At midnight on New Year's Eve in Paris, the temperature was halfway between the temperature in London and the temperature in Madrid.

(b) What was the temperature in Paris?

You must show your working.

.....

(2) (Total 3 marks)

Q16. The table shows the temperatures in three cities at noon one day.

Oslo	New York	Cape Town
–13°C	–5°C	9°C

(a) Work out the difference in temperature between Oslo and New York.

°C	
	(1)

(b) Work out the difference in temperature between Cape Town and Oslo.

.....°C

(1) (Total 2 marks)

Q17. (a) Write these numbers in order of size. Start with the smallest number.

> 17 6 168 24

.....

(1)

(1)

(b) Write these numbers in order of size. Start with the smallest number.

> 1.8 3.71 0.5 12.4

.....

Q18.	(a) Work	out 2 × (11 + 9)		
					(1)
(b)	Work out	3 × 5 + 4			
(c)	Work out	20 – 5 × 3			(1)
					(1) (Total 3 marks)
Q19.	(a) Write	the number r	nine thousan	dred and sevent	
(b)	Write the nu	umber 62 500) in words.		
					(1)

	285	
		(1)
Write the number 2174 to the nearest hundred	l.	(1)
Write the number 7362 to the nearest thousan		. ,
		Write the number 2174 to the nearest hundred.

(1) (Total 5 marks)

Q20.

City	Temperature
Cardiff	–2 °C
Edinburgh	–4 °C
Leeds	2 °C
London	–1 °C
Plymouth	5 °C

The table gives information about the temperatures at midnight in 5 cities.

(a) Write down the lowest temperature.

°C

(b)

	°C
(c)	Work out the temperature which is halfway between -1° C and 5° C.
	°C

Work out the difference in temperature between Cardiff and Plymouth.

(1) (Total 3 marks)

(1)

Q21.	(a)	Write the number 4117 in words.	
			(1)

(b) Write the number 4117 to the nearest hundred.

.....

(1) (Total 2 marks)

Q22.

A bus seats 47 people. Another 6 people can stand.

There are 44 people on the bus. The bus stops.

8 people get off the bus.19 people want to get on the bus.

Can the bus hold all the people who want to get on the bus?

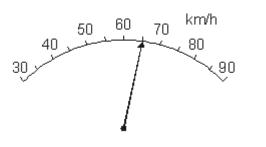


Explain your answer.

(Total 2 marks)

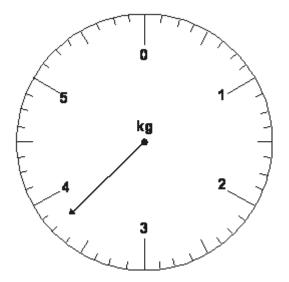
(1)

Q23. (a) Write down the reading on this scale.



..... km/h

The scale shows the weight of Sam's dog.



Sam's baby brother weighs 5 kg.

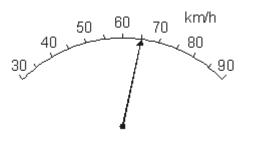
(b) Work out the difference in weight between Sam's baby brother and Sam's dog.

..... kg

(2) (Total 3 marks)

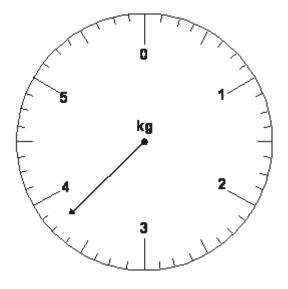
(1)





..... km/h

The scale shows the weight of Sam's dog.



Sam's baby brother weighs 5 kg.

(b) Work out the difference in weight between Sam's baby brother and Sam's dog.

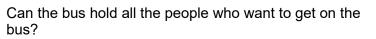
..... kg

(2) (Total 3 marks) Q25.

A bus seats 47 people. Another 6 people can stand.

There are 44 people on the bus. The bus stops.

8 people get off the bus. 19 people want to get on the bus.





Explain your answer.

(Total 2 marks)

(1)

Q26. (a) Write the number 4117 in words.

(b) Write the number 4117 to the nearest hundred.

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.....

(1) (Total 2 marks)

(1)

(Total 3 marks)

Q27.	
City	Temperature
Cardiff	–2 °C
Edinburgh	–4 °C
Leeds	2 °C
London	−1 °C
Plymouth	5 °C

The table gives information about the temperatures at midnight in 5 cities.

(a)	Write down the lowest temperature.	
	So.	(1)
(b)	Work out the difference in temperature between Cardiff and Plymouth.	
	°C	(1)
(c)	Work out the temperature which is halfway between –1°C and 5°C.	
	°C	

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Q28.		(a)	Write the number nine thousand, three h	undred and seventy four in figures.	
					(1)
	(b)	Write	e the number 62 500 in words.		(1)
	(c)	Write	e down the value of the 8 in the number 328	85	(1)
	(d)	Write	e the number 2174 to the nearest hundred.		(1)
	(e)	Write	e the number 7362 to the nearest thousand	l. (Total 5 mar	(1) 'ks)

Q29. (a) Work out 2 × (11 + 9)

.....

(b) Work out $3 \times 5 + 4$

.....

(c) Work out $20-5 \times 3$

..... (1) (Total 3 marks)

Q30. (a) Write these numbers in order of size. Start with the smallest number.

17 6 168 24

.....

(1)

(1)

(b) Write these numbers in order of size. Start with the smallest number.

1.8 3.71 0.5 12.4

.....

(Total 2 marks)

Q31. The table shows the temperatures in three cities at noon one day.

Oslo	New York	Cape Town
–13°C	–5°C	9°C

(a) Work out the difference in temperature between Oslo and New York.

O°

(1)

(b) Work out the difference in temperature between Cape Town and Oslo.

°C

(1) (Total 2 marks)

Q32. The table gives information about the temperatures at midnight on New Year's Eve in 5 capital cities.

City	Temperature
London	–3°C
Madrid	7°C
Oslo	–11°C
Washington DC	1°C
Wellington	14°C

In Oslo, the temperature dropped by 8 degrees from midday to midnight.

(a) What was the temperature in Oslo at midday?

.....

(1)

At midnight on New Year's Eve in Paris, the temperature was halfway between the temperature in London and the temperature in Madrid.

(b) What was the temperature in Paris?

You must show your working.

.....

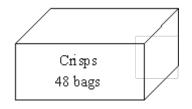
(2) (Total 3 marks)

##

Jan bought 3 boxes of Salt 'n' Vinegar crisps and 2 boxes of Ready Salted crisps to sell at the Year 11 disco.

There are 48 bags of crisps in each box.

At the end of the disco there were 25 bags of crisps left.



How many bags of crisps were sold at the disco?

.....Bags

(Total 3 marks)

Q34. Jemilla goes swimming.She swims 64 lengths of a swimming pool.Each length is 25 m long.

(a) Work out how far Jemilla swims.Give your answer in kilometres.

..... kilometres

(3)

The swimming pool is 25 m long by 10 m wide by 2.5 m deep.

(b) How many litres of water does it contain?

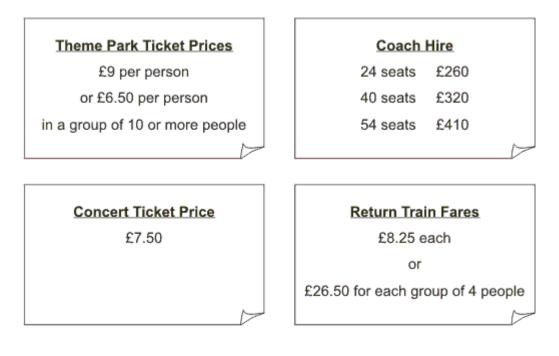
.....*l*

(3) (Total 6 marks)

Q35. Beth is planning a trip for a group of 36 people. The group can go to a theme park **or** to a concert.

If they go to the concert, they will go by train. If they go to the theme park, they will go by coach.

Beth has information about the costs.



What is the least possible total cost of the trip? You must show all your working.

(Total 5 marks)

Q36. (a) Work out 90 ÷ 10

.....

(b) Write these numbers in order of size. Start with the smallest number.

2.8 4.71 0.6 13.4

.....

(1)

(1)

$\frac{7}{40}$

(c) Write $\overline{10}$ as a decimal.

.....

(1) (Total 3 marks)

Q37. Work out 342 × 24.

(Total 3 marks)

Q38. (a) Write the number three thousand one hundred and nine in figures.

.....

(b) Write down the value of the 6 in the number 23.469

••••••

(c) Write the number 4261 correct to the nearest hundred.

.....

(1) (Total 3 marks)

(1)

Q39. At midnight the temperature was -9° C. By 10 am, the temperature had risen by 8° C.

(a) Work out the temperature at 10 am.

.....°C

(1)

At midday the temperature was 5°C.

(b) Work out the difference between the temperature at midnight and the temperature at midday.

.....°C

On another day

the temperature at midnight was -7° C, the temperature at 10 am was -1° C and the temperature at midday was 3° C.

Jenny says that, on this day, the temperature at 10 am is halfway between the temperatures at midnight and at midday.

(c) Is Jenny correct?You must give a reason for your answer.

(2) (Total 5 marks)

Q40. (a) Work out 400 – 193.

.....

(b) Work out 4 - 9.

.....

(1)

(2)

(c) Work out -3×5 .

.....

(1)

(1)

(d) Work out 300 ÷ 50.

> (Total 5 marks)

Q41. The table shows temperatures at midnight and midday on one day in five cities.

City	Midnight temperature	Midday temperature
Belfast	−3 °C	4 °C
Cambridge	−1 °C	4 °C
Edinburgh	−7 °C	−1 °C
Leeds	−6 °C	3 °C
London	−2 °C	6 °C

Which city had the lowest midnight temperature? (a)

.....

(1)

(b) How many degrees higher was the midnight temperature in Cambridge than the midnight temperature in Leeds?

.....°C

(1)

(c) Which city had the greatest rise in temperature from midnight to midday?

.....

(1) (Total 3 marks)

Q42. There were 34 coins in a bag. Jim took 15 coins out of the bag. Rose put 17 coins into the bag.

How many coins are now in the bag?

.....

.....

(Total 2 marks)

(1)

Q43. Here is a list of numbers.

3 8 11 25 33 41

Write down a number from the list which is

(a) an even number,

(b) a square number,

<i>(</i>)		 (1)
(c)	a multiple of 11	
		 (1) (Total 3 marks)

Q44. (a) Write the number three thousand four hundred and twenty five in figures.

	(1)

(b) Write down the value of 4 in the number 2840.

(1)

(c) Write the number 279 to the nearest hundred.

.....

(1) (Total 3 marks)

(1)

Q45.	(a)	Write these numbers in order of size.
	Start	with the smallest number.

-5 3 -1 0 8

.....

(b) Work out $7 + 3 \times 5$

(1) (Total 2 marks)

Q46. Frankie says that $15 - 3 \times 2 = 24$.

Frankie is wrong. Explain why.

(Total 1 mark)

Q47. Frankie says that $15 - 3 \times 2 = 24$.

Frankie is wrong. Explain why.

(Total 1 mark)

Q48. (a) Write these numbers in order of size. Start with the smallest number.

-5 3 -1 0 8

(b) Work out $7 + 3 \times 5$

(1) (Total 2 marks)

(1)

Q49.		(a)	Write the number three thousand four hundred and twenty five in figures.	
			(*	1)
	(b)	Write	e down the value of 4 in the number 2840.	
				1)
	(c)	Write	e the number 279 to the nearest hundred.	
			ہ) (Total 3 marks)	1) s)

Q50. Here is a list of numbers.									
		3	8	11	25	33	41		
	Writ	e down a n	umber	from th	e list w	hich is			
	(a)	an even number,							
									(1)
	(b)	a square i	numbe	er.					(')
	(~)			,					
									(1)
	(c)	a multiple	of 11						
									(1)
									(Total 3 marks)

Q51. There were 34 coins in a bag. Jim took 15 coins out of the bag. Rose put 17 coins into the bag.

How many coins are now in the bag?

(Total 2 marks)

Citv

Midnight

Q52.

City	temperature	temperature		
Belfast	−3 °C	4 °C		
Cambridge	−1 °C	4 °C		
Edinburgh	−7 °C	−1 °C		
Leeds	−6 °C	3 °C		
London	−2 °C	6 °C		
(1-)			town and we in Open bridge these the	(1)
	ht temperature in L		temperature in Cambridge than the °C	(1)
(c) Which	city had the greate	est rise in temperatu	re from midnight to midday?	
				(1)

The table shows temperatures at midnight and midday on one day in five cities.

Midday

(Total 3 marks)

Q53. (a) Work out 400 – 193.

(2)

(1)

(1)

(b) Work out 4 - 9.

.....

.....

(c) Work out -3×5 .

(d) Work out 300 ÷ 50.

.....

(1) (Total 5 marks)

- **Q54.** At midnight the temperature was -9° C. By 10 am, the temperature had risen by 8° C.
 - (a) Work out the temperature at 10 am.

.....°C

(1)

At midday the temperature was 5°C.

(b) Work out the difference between the temperature at midnight and the temperature at midday.

°C.....

(2)

On another day

the temperature at midnight was -7° C, the temperature at 10 am was -1° C and the temperature at midday was 3° C.

Jenny says that, on this day, the temperature at 10 am is halfway between the temperatures at midnight and at midday.

Q55. (a) Write the number **three thousand one hundred and nine** in figures.

(b) Write down the value of the 6 in the number 23.469

.....(1)

.....

(c) Write the number 4261 correct to the nearest hundred.

(1) (Total 3 marks)

Q56. Work out 342 × 24.

Q57. (a) Work out 90 ÷ 10

(1)

(b) Write these numbers in order of size. Start with the smallest number.

2.8 4.71 0.6 13.4

.....

(1)

(c) Write $\frac{7}{10}$ as a decimal.

.....

(1) (Total 3 marks) **Q58.** Beth is planning a trip for a group of 36 people. The group can go to a theme park **or** to a concert.

If they go to the concert, they will go by train. If they go to the theme park, they will go by coach.

Beth has information about the costs.

	-
Theme Park Ticket Prices	Coach Hire
£9 per person	24 seats £260
or £6.50 per person	40 seats £320
in a group of 10 or more people	54 seats £410
\square	
Concert Ticket Price	Return Train Fares
£7.50	£8.25 each
	or
	£26.50 for each group of 4 people
	220.50 for each group of 4 people

What is the least possible total cost of the trip? You must show all your working. **Q59.** Jemilla goes swimming.

She swims 64 lengths of a swimming pool.

Each length is 25 m long.

(a) Work out how far Jemilla swims.Give your answer in kilometres.

..... kilometres

(3)

The swimming pool is 25 m long by 10 m wide by 2.5 m deep.

(b) How many litres of water does it contain?

.....*l*

(3) (Total 6 marks) ##

Jan bought 3 boxes of Salt 'n' Vinegar crisps and 2 boxes of Ready Salted crisps to sell at the Year 11 disco.

There are 48 bags of crisps in each box.

At the end of the disco there were 25 bags of crisps left.

How many bags of crisps were sold at the disco?



Crisps

48 bags

(Total 3 marks)

Q61. The table gives information about the temperatures at midnight on New Year's Eve in 5 capital cities.

City	Temperature
London	–3°C
Madrid	7°C
Oslo	–11°C
Washington DC	1°C
Wellington	14°C

In Oslo, the temperature dropped by 8 degrees from midday to midnight.

(a) What was the temperature in Oslo at midday?

.....

At midnight on New Year's Eve in Paris, the temperature was halfway between the temperature in London and the temperature in Madrid.

(b) What was the temperature in Paris?

You must show your working.

.....

(2) (Total 3 marks)

(1)

Q62. The table shows the temperatures in three cities at noon one day.

Oslo	New York	Cape Town		
–13°C	–5°C	9°C		

(a) Work out the difference in temperature between Oslo and New York.

		°C
•••••	•••••	C

(b) Work out the difference in temperature between Cape Town and Oslo.

.....°C

(1)

(Total 2 marks)

Q63.	(a)	Write these numbers in order of size.
	Start	with the smallest number.

17 6 168 24

.....

(1)

- (b) Write these numbers in order of size. Start with the smallest number.
 - 1.8 3.71 0.5 12.4

.....

(1) (Total 2 marks)

Q64. (a) Work out 2 × (11 + 9)

.....

(1)

Edexcel Maths GCS	SE - Integers (F	-)	PhysicsAndMathsTutor.com
(b)	Work out	3 × 5 + 4	
			(1)
(c)	Work out	20 – 5 × 3	
			(1) (Total 3 marks)
Q65.	(a) Write the	e number nine thousand, three h	nundred and seventy four in figures.
(b)		ber 62 500 in words.	
(c)	Write down th	e value of the 8 in the number 328	35
(d)	Write the num	ber 2174 to the nearest hundred.	
(e)	Write the num	ber 7362 to the nearest thousand	(1)

.....

(1) (Total 5 marks)

Q66.

City	Temperature
Cardiff	–2 °C
Edinburgh	–4 °C
Leeds	2 °C
London	−1 °C
Plymouth	5 °C

The table gives information about the temperatures at midnight in 5 cities.

(a) Write down the lowest temperature.
°C (1)
 (b) Work out the difference in temperature between Cardiff and Plymouth.

°C

(1)

(c) Work out the temperature which is halfway between -1° C and 5° C.

°C

Q67.	(a)	Write the number 4117 in words.	
			(1)

(b) Write the number 4117 to the nearest hundred.

.....

(1) (Total 2 marks)

Q68.

A bus seats 47 people. Another 6 people can stand.

There are 44 people on the bus. The bus stops.

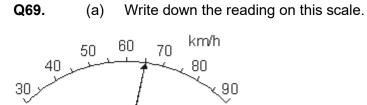
8 people get off the bus.19 people want to get on the bus.

Can the bus hold all the people who want to get on the bus?

Explain your answer.



(Total 2 marks)



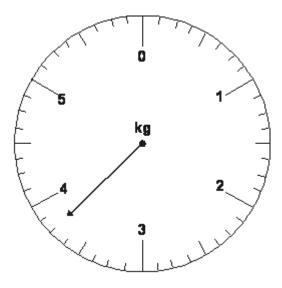
Q69.



..... km/h

(1)

The scale shows the weight of Sam's dog.



Sam's baby brother weighs 5 kg.

(b) Work out the difference in weight between Sam's baby brother and Sam's dog.

..... kg

(2) (Total 3 marks)

M1.

Answer	Mark	Additional Guidance
explanation		B1 for explanation with Bidmas e.g. Brackets needed (15 – 3) or Answer should be 9 Note: brackets needed is insufficient
		Total for Question: 1 mark

M2.

	Working	Answer	Mark	Additional Guidance
(a)		-5, -1, 0, 3, 8	1	B1 for –5, −1, 0, 3, 8 cao
(b)	7 + 15	22	1	B1 for 22 cao
				Total for Question: 2 marks

M3.

	Answer	Mark	Additional Guidance
(a)	3425	1	B1 for 3425 cao
(b)	40	1	B1 for 40 or forty or 4 tens or tens

(c)	300	1	B1 for 300 or 3 (hundred)
			Total for Question: 3 marks

M4.

	Answer	Mark	Additional Guidance
(a)	8	1	B1 for 8 cao
(b)	25	1	B1 for 25 cao
(c)	33	1	B1 for 33 (or 11)
			Total for Question: 3 marks

M5.

Working	Answer	Mark	Additional Guidance		
34 –15 + 17	36		M1 34 –15 + 17 or 34 + 2 or 34 + 17 – 15 oe or sight of 19 or 51 A1 cao (accept if 36p seen) B1 SC for 2 seen as their answer		
Total for Question: 2 mar					

M6.

	Answer	Mark	Additional Guidance
(a)	Edinburgh	1	B1 for Edinburgh or –7
(b)	5	1	B1 cao
(c)	Leeds	1	B1 for Leeds or –6 to 3 or 9 or –9
			Total for Question: 3 marks

M7.

	Answer	Mark	Additional Guidance			
(a)	207		M1 for a valid method (condone one error) or sight of 7 (as units) in working or answer OR '193 + 7' + 200 or '193 + 200' + 7 A1 cao			
(b)	-5	1	B1 cao			
(c)	-15	1	B1 cao			
(d)	6	1	B1 cao			
	Total for Question: 5 marks					

	Answer	Mark	Additional Guidance
(a)	-1	1	B1 cao
(b)	14		M1 for 5 – –9 or – 9 – 5 A1 for 14 or –14
(c)	No + reason		M1 for attempt to find middle of −7 and 3 eg, may see −7 and 3 on number line or (−7 −3) ÷ 2 or (−3 −7) ÷ 2 A1 for 'No' and correct reason
			Total for Question: 5 marks

M9.

	Answer	Mark	Additional Guidance
(a)	3109	1	B1 cao
(b)	6 hundredths	1	B1 for 6 hundredths or 0.06 or $\frac{6}{100}$
(c)	4300	1	B1 cao
			Total for Question: 3 marks

M10.

Working Answer	Mark	Additional Guidance
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$ \begin{array}{r} 24 \\ 342 \times 342 \\ \times 24 \\ 7200 \\ 6840 \\ 960 \\ \underline{1368} \\ 48 \\ 8208 \\ 8208 \\ 3 \\ 4 \\ 2 \\ 0 \\ 6 \\ 8 \\ 2 \\ 0 \\ 8 \\ 2 \\ 3 \\ 4 \\ 2 \\ 4 \\ 2 \\ 4 \\ 2 \\ 4 \\ 2 \\ 4 \\ 2 \\ 3 \\ 4 \\ 3 \\ 4 \\ 2 \\ 3 \\ 4 \\ 2 \\ 3 \\ 4 \\ 3 \\ 4 \\ 4 \\ 2 \\ 3 \\ 4 \\ 4 \\ 2 \\ 3 \\ 4 \\ 4 \\ 2 \\ 4 \\ 3 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 2 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4$	8208	 M1 for a complete method with relative place value correct. Condone 1 multiplication error, addition not necessary. M1 (dep) for addition of all the appropriate elements of the calculation. A1 cao M1 for a complete grid with not more than 1 multiplication error, addition not necessary (inside numbers) M1 (dep) for addition of all the appropriate elements of the calculation (eg outside numbers) A1 cao M1 for sight of a complete partitioning
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		method, condone 1 multiplication error, addition not necessary. M1 (dep) for addition of all the appropriate elements of the calculation. A1 cao
		Total for Question: 3 marks

M11.

	Answer	Mark	Additional Guidance
(a)	9	1	B1 cao
(b)	0.6, 2.8, 4.71, 13.4	1	B1 cao
(c)	0.7	1	B1 cao
		- -	Total for Question: 3 marks

M12.

Working	Answer	Mark	Additional Guidance
$6.50 \times 36 = 234$ 234 + 320 = 554 $36 \div 4 = 9$ $26.50 \times 9 = 238.50$ $36 \times 7.50 = 270$ 270 + 238.5 = 508.5 OR $320 \div 36 = 8.88(9)$ 8.88(9) + 6.50 = 15.38(9) $26.50 \div 4 = 6.62(3)$ 6.62(3) + 7.50 = 14.12(3) $14.12(3) \times 36 = 508.50$	£508.50	5	M1 for using $36 \times correct entrance price,$ $36 \times 7.50 \text{ or } 36 \times 6.50$ M1 for using correct travel cost, 320 or " $36 \div 4$ " $\times 26.50$ (238.50) [condone 320 for concert and " $36 \div 4$ " $\times 26.50$ (238.50) for theme park] A1 for 554 cao A1 for 554 cao C1 ft for identifying, in words, the cheaper venue from 2 calculated amounts. One amount must be for the theme park and one amount must be for the concert [Note: the 2 calculated amounts must each be of ticket plus travel costs] OR M1 for $320 \div 36$ [= $8.88(9)$] or $26.50 \div 4$ = [$6.62(3)$] A1 for $15.38(9)$ or $14.12(3)$ M1 for " $14.12(3)$ " $\times 36$ A1 for 508.5 C1 ft for identifying, in words, "the cheaper cost per student gives the least total cost".
			Total for Question: 5 marks

M13.

	Working	Answer	Mark	Additional Guidance
(a)	64 × 75m = 4800m	4.8 km	3	M1 for 64 × 75
	4800 ÷ 1000			M1 for "64 × 75" ÷ 1000

				A1 cao
(b)	Vol = 25 × 10 × 2.5= 625m³	625 000	3	M1 for attempt at finding the volume
	625 × 1000			M1 for attempt to find the number of <i>l</i> in 1m³ or 1m³ = 1000 <i>l</i>
				A1 cao
				Total for Question: 6 marks

M14.

Working	Answer	Mark	Additional Guidance
(3 + 2) × 48 = 240	215	3	M1 for attempt to find total number of bags of crisps
240 – 35			M1 for attempt to subtract 25
			A1 cao 3
	1	1	Total for Question: 3 marks

M15.

Working	Answer	Mark	Additional Guidance
−11 + 8 OR use a number line and count back Eg: −11 −10 −9 −8 −7 −6 −4 −3 −2 −1 0 1 Count 8 places	−3°C	1	B1 cao

(b)	2°C	2	
	Page 6	0	
		-	

M16.

	Answer	Mark	Additional Guidance
(a)	8	1	B1 cao Accept negative answers.
(b)	22	1	B1 cao Accept negative answers.
			Total for Question: 2 marks

M17.

	Answer	Mark	Additional Guidance
(a)	6, 17, 24, 168	1	B1 for 6, 17, 24, 168
(b)	0.5, 1.8, 3.71, 12.4	1	B1 for 0.5, 1.8, 3.71, 12.4
			Total for Question: 2 marks

	Answer	Mark	Additional Guidance
(a)	40	1	B1 cao
(b)	19	1	B1 cao
(c)	5	1	B1 cao
			Total for Question: 3 marks

M19.

	Answer	Mark	Additional Guidance		
(a)	9374	1	B1 cao		
(b)	sixty two thousand five hundred	1	B1 cao		
(c)	80	1	B1 for 80, accept 8 tens, tens		
(d)	2200	1	B1 cao		
(e)	7000	1	B1 cao		
	Total for Question: 5 marks				

M20.

	Answer	Mark	Additional Guidance
(a)	-4	1	B1 for –4°C or Edinburgh

(b)	7	1	B1 for 7 (accept –7)
(c)	2	1	B1 for 2 or Leeds
				Total for Question: 3 marks

M21.

	Answer	Mark	Additional Guidance
(a)	Four thousand, one hundred and seventeen	1	B1 for four thousand, one hundred and seventeen oe
(b)	4100	1	B1 for 4100 in figures or words or 41 hundred
			Total for Question: 2 marks

M22.

Working	Answer	Mark	Additional Guidance
44 - 8 = 36 36 + 19 = 55 47 + 3 = 53	2 (with appropriate reason)		M1 Clear attempt to find the number of spaces available on the bus after the bus stopsA1 reason for answer which must comment on
OR			the difference between 55 and 53
44 + 19 – 8 = 55 47 + 6 = 53			
OR			
47 – 44 = 3			

3 + 8 = 11 19 – 11 – 6= 2		
		Total for Question: 2 marks

M23.

	Working	Answer	Mark	Additional Guidance
(a)		65	1	В1 сао
(b)	5 – 3.8	1.2		M1 5 – 3.8 A1 cao
				Total for Question: 3 marks

M24.

	Working	Answer	Mark	Additional Guidance
(a)		65	1	B1 cao
(b)	5 – 3.8	1.2		M1 5 – 3.8 A1 cao
			-	Total for Question: 3 marks

M25.

Working	Answer	Mark	Additional Guidance
44 - 8 = 36 36 + 19 = 55 47 + 3 = 53 OR	2 (with appropriate reason)		 M1 Clear attempt to find the number of spaces available on the bus after the bus stops A1 reason for answer which must comment on the difference between 55 and 53
44 + 19 – 8 = 55 47 + 6 = 53			
OR			
47 – 44 = 3 3 + 8 = 11 19 – 11 – 6= 2			
	L		Total for Question: 2 marks

M26.

	Answer	Mark	Additional Guidance
(a)	Four thousand, one hundred and seventeen	1	B1 for four thousand, one hundred and seventeen oe
(b)	4100	1	B1 for 4100 in figures or words or 41 hundred
			Total for Question: 2 marks

M27.

	Answer	Mark	Additional Guidance	
(a)	-4	1	B1 for –4°C or Edinburgh	
(b)	7	1	B1 for 7 (accept –7)	
(c)	2	1	B1 for 2 or Leeds	
			Total for Question: 3 marks	

M28.

	Answer	Mark	Additional Guidance				
(a)	9374	1	B1 cao				
(b)	sixty two thousand five hundred	1	B1 cao				
(c)	80	1	B1 for 80, accept 8 tens, tens				
(d)	2200	1	B1 cao				
(e)	7000	1	B1 cao				
	Total for Question: 5 marks						

	Answer	Mark	Additional Guidance
(a)	40	1	B1 cao
(b)	19	1	B1 cao
(c)	5	1	B1 cao
			Total for Question: 3 marks

M30.

	Answer	Mark	Additional Guidance
(a)	6, 17, 24, 168	1	B1 for 6, 17, 24, 168
(b)	0.5, 1.8, 3.71, 12.4	1	B1 for 0.5, 1.8, 3.71, 12.4
			Total for Question: 2 marks

M31.

	Answer	Mark	Additional Guidance
(a)	8	1	B1 cao Accept negative answers.
(b)	22	1	B1 cao Accept negative answers.
			Total for Question: 2 marks

M32.

Working	Answer	Mark	Additional Guidance
−11 + 8 OR use a number line and count back Eg: −11 −10 −9 −8 −7 −6 −4 −3 −2 −1 0 1 Count 8 places	-3°C	1	B1 cao

(b)	2°C	2		
	Page 6	9		

M33.

Working	Answer	Mark	Additional Guidance		
(3 + 2) × 48 = 240	215	3	M1 for attempt to find total number of bags of crisps		
240 – 35			M1 for attempt to subtract 25		
			A1 cao 3		
Total for Question: 3 marks					

M34.

	Working	Answer	Mark	Additional Guidance		
(a)	64 × 75m = 4800m	4.8 km	3	M1 for 64 × 75		
	4800 ÷ 1000			M1 for "64 × 75" ÷ 1000		
				A1 cao		
(b)	Vol = 25 × 10 × 2.5= 625m³	625 000	3	M1 for attempt at finding the volume		
	625 × 1000			M1 for attempt to find the number of <i>l</i> in 1m ³ or 1m ³ = 1000 <i>l</i>		
				A1 cao		
	Total for Question: 6 marks					

M35.

Working	Answer	Mark	Additional Guidance		
$6.50 \times 36 = 234$ 234 + 320 = 554 $36 \div 4 = 9$ $26.50 \times 9 = 238.50$ $36 \times 7.50 = 270$ 270 + 238.5 = 508.5 OR $320 \div 36 = 8.88(9)$ 8.88(9) + 6.50 = 15.38(9) $26.50 \div 4 = 6.62(3)$ 6.62(3) + 7.50 = 14.12(3) $14.12(3) \times 36 = 508.50$	£508.50	5	M1 for using $36 \times correct entrance price,$ $36 \times 7.50 \text{ or } 36 \times 6.50$ M1 for using correct travel cost, 320 or " $36 \div 4$ " × 26.50 (238.50) [condone 320 for concert and " $36 \div 4$ " × 26.50 (238.50) for theme park] A1 for 554 cao A1 for 508.5 cao C1 ft for identifying, in words, the cheaper venue from 2 calculated amounts. One amount must be for the theme park and one amount must be for the concert [Note: the 2 calculated amounts must each be of ticket plus travel costs] OR M1 for $320 \div 36$ [= $8.88(9)$] or $26.50 \div 4$ = [$6.62(3)$] A1 for $15.38(9)$ or $14.12(3)$ M1 for " $14.12(3)$ " × 36 A1 for 508.5 C1 ft for identifying, in words, "the cheaper cost per student gives the least total cost".		
Total for Question: 5 marks					

M36.

	Answer	Mark	Additional Guidance
(a)	9	1	B1 cao

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(b)	0.6, 2.8, 4.71, 13.4	1	B1 cao
(c)	0.7	1	B1 cao
			Total for Question: 3 marks

M37.

Working	Answer	Mark	Additional Guidance
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	8208		 M1 for a complete method with relative place value correct. Condone 1 multiplication error, addition not necessary. M1 (dep) for addition of all the appropriate elements of the calculation. A1 cao M1 for a complete grid with not more than 1 multiplication error, addition not necessary (inside numbers) M1 (dep) for addition of all the appropriate elements of the calculation (eg outside numbers) A1 cao M1 for sight of a complete partitioning method, condone 1 multiplication error, addition error, addition not necessary. M1 (dep) for addition of all the appropriate elements of the calculation. A1 cao
			Total for Question: 3 marks

M38.

	Answer	Mark	Additional Guidance
(a)	3109	1	B1 cao
(b)	6 hundredths	1	B1 for 6 hundredths or 0.06 or $\frac{6}{100}$
(c)	4300	1	B1 cao
			Total for Question: 3 marks

M39.

	Answer	Mark	Additional Guidance			
(a)	-1	1	B1 cao			
(b)	14		M1 for 5 – –9 or – 9 – 5 A1 for 14 or –14			
(c)	No + reason		M1 for attempt to find middle of −7 and 3 eg, may see −7 and 3 on number line or (−7 −3) ÷ 2 or (−3 −7) ÷ 2 A1 for 'No' and correct reason			
	Total for Question: 5 marks					

	Answer	Mark	Additional Guidance
(a)	207		M1 for a valid method (condone one error) or sight of 7 (as units) in working or answer OR '193 + 7' + 200 or '193 + 200' + 7 A1 cao
(b)	-5	1	B1 cao
(c)	–15	1	B1 cao
(d)	6	1	B1 cao
			Total for Question: 5 marks

M41.

	Answer	Mark	Additional Guidance			
(a)	Edinburgh	1	B1 for Edinburgh or –7			
(b)	5	1	B1 cao			
(c)	Leeds	1	B1 for Leeds or –6 to 3 or 9 or –9			
	Total for Question: 3 marks					

M42.

Working Answer Mark	Additional Guidance
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34 –15 + 17	36	2	M1 34 –15 + 17 or 34 + 2 or 34 + 17 – 15 oe or sight of 19 or 51 A1 cao (accept if 36p seen) B1 SC for 2 seen as their answer
			Total for Question: 2 marks

M43.

	Answer	Mark	Additional Guidance
(a)	8	1	B1 for 8 cao
(b)	25	1	B1 for 25 cao
(c)	33	1	B1 for 33 (or 11)
			Total for Question: 3 marks

M44.

	Answer	Mark	Additional Guidance
(a)	3425	1	B1 for 3425 cao
(b)	40	1	B1 for 40 or forty or 4 tens or tens
(c)	300	1	B1 for 300 or 3 (hundred)
		-	Total for Question: 3 marks

M45.

	Working	Answer	Mark	Additional Guidance
(a)		-5, -1, 0, 3, 8	1	B1 for –5, –1, 0, 3, 8 cao
(b)	7 + 15	22	1	B1 for 22 cao
				Total for Question: 2 marks

M46.

Answer	Mark	Additional Guidance
explanation		B1 for explanation with Bidmas e.g. Brackets needed (15 – 3) or Answer should be 9 Note: brackets needed is insufficient
		Total for Question: 1 mark

M47.

Answer	Mark	Additional Guidance
explanation	1	B1 for explanation with Bidmas

e.g. Brackets needed (15 – 3) or Answer should be 9 Note: brackets needed is insufficient

Total for Question: 1 mark

M48.

	Working	Answer	Mark	Additional Guidance
(a)		-5, -1, 0, 3, 8	1	B1 for –5, −1, 0, 3, 8 cao
(b)	7 + 15	22	1	B1 for 22 cao
				Total for Question: 2 marks

M49.

	Answer	Mark	Additional Guidance
(a)	3425	1	B1 for 3425 cao
(b)	40	1	B1 for 40 or forty or 4 tens or tens
(c)	300	1	B1 for 300 or 3 (hundred)
			Total for Question: 3 marks

M50.

	Answer	Mark	Additional Guidance
(a)	8	1	B1 for 8 cao
(b)	25	1	B1 for 25 cao
(c)	33	1	B1 for 33 (or 11)
			Total for Question: 3 marks

M51.

Working	Answer	Mark	Additional Guidance		
34 –15 + 17	36		M1 34 –15 + 17 or 34 + 2 or 34 + 17 – 15 oe or sight of 19 or 51 A1 cao (accept if 36p seen) B1 SC for 2 seen as their answer		
Total for Question					

M52.

	Answer	Mark	Additional Guidance
(a)	Edinburgh	1	B1 for Edinburgh or –7

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(b)	5	1	В1 сао
(c)	Leeds	1	B1 for Leeds or –6 to 3 or 9 or –9
			Total for Question: 3 marks

M53.

	Answer	Mark	Additional Guidance			
(a)	207		M1 for a valid method (condone one error) or sight of 7 (as units) in working or answer OR '193 + 7' + 200 or '193 + 200' + 7 A1 cao			
(b)	-5	1	B1 cao			
(c)	-15	1	B1 cao			
(d)	6	1	B1 cao			
	Total for Question: 5 marks					

M54.

	Answer	Mark	Additional Guidance
(a)	-1	1	В1 сао
(b)	14	2	M1 for 5 – –9 or – 9 – 5 A1 for 14 or –14
(c)	No + reason	2	M1 for attempt to find middle of –7 and 3 eg, may

	see –7 and 3 on number line or (−7 −3) ÷ 2 or (−3 −7) ÷ 2 A1 for 'No' and correct reason
	Total for Ouestion: 5 marks

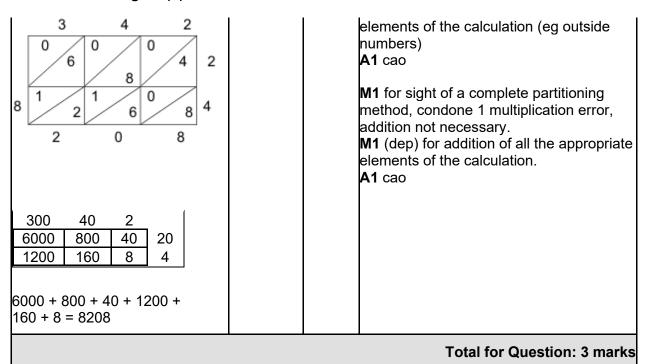
lotal for Question: 5 marks

M55.

	Answer	Mark	Additional Guidance
(a)	3109	1	B1 cao
(b)	6 hundredths	1	B1 for 6 hundredths or 0.06 or $\frac{6}{100}$
(c)	4300	1	B1 cao
			Total for Question: 3 marks

M56.

	Working	Answer	Mark	Additional Guidance
342 <u>×24</u> 6840 <u>1368</u> 8208	24 <u>×342</u> 7200 960 <u>48</u> 8208	8208		 M1 for a complete method with relative place value correct. Condone 1 multiplication error, addition not necessary. M1 (dep) for addition of all the appropriate elements of the calculation. A1 cao M1 for a complete grid with not more than 1 multiplication error, addition not necessary (inside numbers) M1 (dep) for addition of all the appropriate



M57.

	Answer	Mark	Additional Guidance
(a)	9	1	B1 cao
(b)	0.6, 2.8, 4.71, 13.4	1	B1 cao
(c)	0.7	1	B1 cao
			Total for Question: 3 marks

Working	Answer	Mark	Additional Guidance
$6.50 \times 36 = 234$ 234 + 320 = 554 $36 \div 4 = 9$ $26.50 \times 9 = 238.50$ $36 \times 7.50 = 270$ 270 + 238.5 = 508.5 OR $320 \div 36 = 8.88(9)$ 8.88(9) + 6.50 = 15.38(9) $26.50 \div 4 = 6.62(3)$ 6.62(3) + 7.50 = 14.12(3) $14.12(3) \times 36 = 508.50$	£508.50	5	M1 for using $36 \times correct entrance price,$ $36 \times 7.50 \text{ or } 36 \times 6.50$ M1 for using correct travel cost, 320 or " $36 \div 4$ " × 26.50 (238.50) [condone 320 for concert and " $36 \div 4$ " × 26.50 (238.50) for theme park] A1 for 554 cao A1 for 508.5 cao C1 ft for identifying, in words, the cheaper venue from 2 calculated amounts. One amount must be for the theme park and one amount must be for the concert [Note: the 2 calculated amounts must each be of ticket plus travel costs] OR M1 for $320 \div 36$ [= $8.88(9)$] or $26.50 \div 4$ = [$6.62(3)$] A1 for $15.38(9)$ or $14.12(3)$ M1 for " $14.12(3)$ " × 36 A1 for 508.5 C1 ft for identifying, in words, "the cheaper cost per student gives the least total cost".
			Total for Question: 5 marks

M59.

	Working	Answer	Mark	Additional Guidance
(a)	64 × 75m = 4800m	4.8 km	3	M1 for 64 × 75
	4800 ÷ 1000			M1 for "64 × 75" ÷ 1000
				A1 cao
(b)	Vol = 25 × 10 × 2.5= 625m³	625 000	3	M1 for attempt at finding the volume
	625 × 1000			M1 for attempt to find the number of <i>l</i> in 1m ³ or 1m ³ = 1000 <i>l</i>
				A1 cao

M60.

Working	Answer	Mark	Additional Guidance
(3 + 2) × 48 = 240	215	3	M1 for attempt to find total number of bags of crisps
240 – 35			M1 for attempt to subtract 25
			A1 cao 3
			Total for Question: 3 marks

M61.

Working	Answer	Mark	Additional Guidance
−11 + 8 OR use a number line and count back Eg: −11 −10 −9 −8 −7 −6 −4 −3 −2 −1 0 1 Count 8 places	−3°C	1	B1 cao

(b)	2°C	2		
	Page 8	4		

Total for Question: 3 marks

M62.

	Answer	Mark	Additional Guidance
(a)	8	1	B1 cao Accept negative answers.
(b)	22	1	B1 cao Accept negative answers.
			Total for Question: 2 marks

M63.

	Answer	Mark	Additional Guidance
(a)	6, 17, 24, 168	1	B1 for 6, 17, 24, 168
(b)	0.5, 1.8, 3.71, 12.4	1	B1 for 0.5, 1.8, 3.71, 12.4
			Total for Question: 2 marks

	Answer	Mark	Additional Guidance
(a)	40	1	B1 cao
(b)	19	1	B1 cao
(c)	5	1	B1 cao
			Total for Question: 3 marks

M65.

	Answer	Mark	Additional Guidance		
(a)	9374	1	B1 cao		
(b)	sixty two thousand five hundred	1	B1 cao		
(c)	80	1	B1 for 80, accept 8 tens, tens		
(d)	2200	1	B1 cao		
(e)	7000	1	B1 cao		
	Total for Question: 5 marks				

M66.

	Answer	Mark	Additional Guidance
(a)	-4	1	B1 for –4°C or Edinburgh

(b)	7	1	B1 for 7 (accept –7)
(c)	2	1	B1 for 2 or Leeds
				Total for Question: 3 marks

M67.

	Answer	Mark	Additional Guidance
(a)	Four thousand, one hundred and seventeen	1	B1 for four thousand, one hundred and seventeen oe
(b)	4100	1	B1 for 4100 in figures or words or 41 hundred
			Total for Question: 2 marks

M68.

Working	Answer	Mark	Additional Guidance
44 - 8 = 36 36 + 19 = 55 47 + 3 = 53	2 (with appropriate reason)		M1 Clear attempt to find the number of spaces available on the bus after the bus stopsA1 reason for answer which must comment on
OR			the difference between 55 and 53
44 + 19 – 8 = 55 47 + 6 = 53			
OR			
47 – 44 = 3			

3 + 8 = 11 19 – 11 – 6= 2		
		Total for Question: 2 marks

M69.

	Working	Answer	Mark	Additional Guidance
(a)		65	1	В1 сао
(b)	5 – 3.8	1.2		M1 5 – 3.8 A1 cao
				Total for Question: 3 marks

E1. This question was not very well understood as many candidates were happy that the incorrect answer was, in fact, correct. Only 56% of candidates were able to correctly give a correct reason as to how 24 was in fact obtained or how to correctly calculate 15 – 3 × 2 as 9. Some candidates indicated that brackets were needed but gave no indication as to their placement to make a true statement.

E2. Part (a) was almost always correct but in part (b) the correct answer of 22 was rarely seen whilst the modal incorrect answer of 50 was seen frequently.

E3. This question was very well answered with almost all candidates gaining the full 3 marks.

E4. This question too was well understood with almost all candidates gaining full marks; however a small minority gave odd numbers instead of evens and 3 instead of a square number.

E5. This question was well understood with 88% of candidates scoring full marks. A further 8% of candidates scored 1 mark either for showing a complete method or for sight

of 19 or 51. Many candidates took away both 15 and 17 and got an answer of 2. They were awarded one mark for a misread of taking 15 and 17 away from 34.

E6. This question was done well by the vast majority of candidates.

Common errors in part (b) were –5 and –7. Common errors in part (c) were Edinburgh and London.

E7. Many candidates were able to score at least one mark for part (a) of this question. This was usually for obtaining a 7 in the unit column of their answer. A significant number of candidates were unable to obtain the correct answer. Common incorrect answers here were 217, 117 and 393. In part (b), many candidates were able to take 9 from 4 to get –5. A very common incorrect answer here was 5. Part (c) was done well by most candidates. Common incorrect answers here were 15 and 2. Part (d) was done well by the majority of candidates It was rare to see this calculation set out as a long division- many just simply wrote down the answer. Common incorrect answers here were 60 and 250.

##

It is always surprising how few candidates draw a number line to assist them in completing questions on temperature. Those who do are more successful at answering the questions. There were many correct answers in (a), but errors included those who did 8-9, those who miscounted (presumably in their head) and those who counted the wrong way. In part (b) some did the difference with the 10 am temperature, and as in the first part errors of miscounting and counting the wrong way. Most gave an explanation in part (c), and the marks were awarded on the basis of how detailed their explanation was. Many wrong answers were as a result of incorrect calculation. But many who gained the 2 marks did so by a surprising variety of answers. These included correct calculation (-2°C), use of a number line to demonstrate (in)correct numbers, and comparison of differencing (-7 to -1 is 6° but -1 to 3 is 4° so not halved). Candidates seemed to thrive on the possibility of choosing their own explanation from the data.

##

This question was well answered. Many were able to write the number correctly in part (a), and give the correct value of the 6 in part (b). The main errors in part (c) included truncation to 4200 or rounding to the nearest 10.

##

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Although most gave the correct answer, many were confused with the ten and multiplication was not uncommon. In part (b) most gave the correct answer, with the most common error being the 4.71 and 13.4 reversed. In part (c) both 0.7 and 0.70 were acceptable as answers. When 7.1, 7, 10 or other fractions were given as answers it was clear the candidate did not understand place value.

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E16. The ability of candidates to work with directed numbers was a strength, with most candidates gaining the marks. Success in part (b) was less than in part (a).

E17. Very few candidates failed to answer part (a) correctly. It was not surprising that more mistakes were made in ordering the decimals in part (b). The two most common errors were ignoring the decimal point (so that 3.71 appeared at the end of the list) and ordering the numbers from largest to smallest.

E18. This question differentiated well between candidates with the great majority achieving the marks in parts (a) and (b). Some candidates put their own brackets in part (b) and gave the answer 27. Only a third of candidates were able to give the correct answer to part (c). 45 was a more commonly seen answer here.

E19. All parts of this question were answered well with success rates of well over 90% for the first two parts and of over 80% for the last 3 parts. Tenths or ten were commonly seen incorrect answers to part (c). There was some incorrect rounding in parts (d) and (e). A small minority of candidates did not rounded to the accuracy required.

E20. Most candidates were able to identify the lowest temperature as -4° C in part (a). Arithmetical errors prevented about 20% of the candidature gaining credit in part (b).

In part (c), very few candidates demonstrated any method; consequently many errors were made in finding the middle number. Had more candidates drawn and used number lines, many more would have been successful.

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It is always surprising how few candidates draw a number line to assist them in completing questions on temperature. Those who do are more successful at answering the questions. There were many correct answers in (a), but errors included those who did 8-9, those who miscounted (presumably in their head) and those who counted the wrong way. In part (b) some did the difference with the 10 am temperature, and as in the first part errors of miscounting and counting the wrong way. Most gave an explanation in part (c), and the marks were awarded on the basis of how detailed their explanation was. Many wrong answers were as a result of incorrect calculation. But many who gained the 2 marks did so by a surprising variety of answers. These included correct calculation (-2°C), use of a number line to demonstrate (in)correct numbers, and comparison of differencing (-7 to -1 is 6° but -1 to 3 is 4° so not halved). Candidates seemed to thrive on the possibility of choosing their own explanation from the data.

E40. Many candidates were able to score at least one mark for part (a) of this question. This was usually for obtaining a 7 in the unit column of their answer. A significant number of candidates were unable to obtain the correct answer. Common incorrect answers here were 217, 117 and 393. In part (b), many candidates were able to take 9 from 4 to get –5. A very common incorrect answer here was 5. Part (c) was done well by most candidates. Common incorrect answers here were 15 and 2. Part (d) was done well by the majority of candidates It was rare to see this calculation set out as a long division- many just simply wrote down the answer. Common incorrect answers here were 60 and 250.

E41. This question was done well by the vast majority of candidates.

Common errors in part (b) were –5 and –7. Common errors in part (c) were Edinburgh and London.

E42. This question was well understood with 88% of candidates scoring full marks. A further 8% of candidates scored 1 mark either for showing a complete method or for sight of 19 or 51. Many candidates took away both 15 and 17 and got an answer of 2. They were awarded one mark for a misread of taking 15 and 17 away from 34.

E43. This question too was well understood with almost all candidates gaining full marks; however a small minority gave odd numbers instead of evens and 3 instead of a square number.

E44. This question was very well answered with almost all candidates gaining the full 3 marks.

E45. Part (a) was almost always correct but in part (b) the correct answer of 22 was rarely seen whilst the modal incorrect answer of 50 was seen frequently.

E46. This question was not very well understood as many candidates were happy that the incorrect answer was, in fact, correct. Only 56% of candidates were able to correctly give a correct reason as to how 24 was in fact obtained or how to correctly calculate $15 - 3 \times 2$ as 9. Some candidates indicated that brackets were needed but gave no indication as to their placement to make a true statement.

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