## **Line Graphs-Answers**

## Key Stage3: 2003 Paper1 Level 3-5

1.

ier & Que	70,000		Throwing dice	
-5 4-6 5-7	7 6-8			
0 5		Correct response	Additional guidance	
a a	2m	Indicates only the five points with positive integer coordinates whose sum is 6 eg	! Point(s) not indicated accurately Accept in parts (a) and (b) provided the pupil's intention is clear	
		* * * * * * * * * * * * * * * * * * * *	! Additional points indicated that assume zero to be on the dice eg • (0, 6) and/or (6, 0) indicated If this is the only error, mark as 1, 0 ! Additional points with non-integer coordinates whose sum is 6 indicated eg	
	or 1m	Indicates at least four correct points with no incorrect points  or  Indicates all five correct points with not more than one incorrect point	If this is the only error, mark as 1, 0	
ь	2m	Indicates only the six points with positive integer coordinates such that $y = x$ eg	! Additional point indicated that assumes zero to be on the dice eg • (0, 0) indicated If this error has been penalised in part (a), condone If this is the only error and it has not been penalised in part (a), mark as 1, 0 ! Additional points with non-integer coordinates such that y = x indicated eg •	
	or 1m	Indicates at least five correct points with no incorrect points  or  Indicates all six correct points with not more than one incorrect point	If this error has been penalised in part (a), condone If this is the only error and it has not been penalised in part (a), mark as 1, 0	

Tier & Question 3-5 4-6 5-7 6-8				Throwing disa (sont)	
		Throwing dice		Throwing dice (cont)	
0 5			Correct response	Additional guidance	
e e		1m	Completes the sentence to give a correct rule eg  One less than the number on the red dice Red – 1 Needing 1 added to get the number on the red dice	✓ Minimally acceptable rule eg • 1 below the other dice • The number below the red dice  ✓ Rule expressed algebraically eg • b = r - 1 • r - 1  ! Rule that does not use the given starting phrase Accept only if unambiguous eg, accept • Red = blue + 1 eg, do not accept • 1 more on the red  ✓ Ambiguous rule eg • - 1 • 1 below • A number below the red dice • The number lower than the red dice • The number lower than the red dice • Followed by the number on the red dice  ✓ Incomplete rule eg • Less than the number on the red dice  ✓ Rule not generalised Do not accept rules only shown through particular numerical examples eg • 2 - 1 = 1, 3 - 2 = 1, 4 - 3 = 1 etc	

Key Stage 3: 2004 Paper 1 Level 3-5

2.

er & Question -54-6 5-7 6-8			Daylight hour	
9 2	_		Correct response	Additional guidance
N		3m	Gives a complete correct response with both months identified correctly and correct values given within the ranges as shown below, ie  June 18.5 to 19.5 inclusive December 5 to 6 inclusive	! Months not written in full Accept unambiguous indications eg, for December • D Do not accept ambiguous indication that could refer to other months eg, for June • J
		or 2m	Makes not more than one error, but if the error is in identifying a month the pupil must follow through from that incorrect month eg  Jun 20 (error)	! Dates given Ignore eg, for June accept • June 15th ! Follow through Note that follow through must be applied from incorrect months. Ranges for correct values are shown below
			Dec 6 June 19 February (error) 10	Jan 6.5 to 7.5 inclusive Feb 9.5 to 10 inclusive Mar 12 to 12.5 inclusive Apr 15 to 16 inclusive
		or 1m	Makes not more than two errors or omissions, but if the error is in identifying month(s) the pupil must follow through from that incorrect month(s) eg  • June  12 (error)  Dec  7 (error)	May 17.75 to 18.25 inclusive (Jun 18.5 to 19.5 inclusive) Jul 17.5 to 18 inclusive Aug 15 to 15.5 inclusive Sep 12 to 12.5 inclusive Oct 9 to 9.5 inclusive Nov 6.5 to 7.5 inclusive (Dec 5 to 6 inclusive)
			July (error)  18 Oct (error)  9 June 12 (error) Jan (error)  7	! Months omitted or months identified ambiguously Treat each omission or ambiguous respons as one error eg, for 2m accept  * J (ambiguous) 19 Dec 5.8 eg, for 1m accept  * (omits) 19 (omits) 5.8

Key Stage 3: 2004 Paper 1 Level 4-6

lier & Qu	_	3		Daylight hours
-5 4-6 5 4 9	CONTRACT OF THE PARTY NAMED IN		Correct response	Additional guidance
		3m	Gives a complete correct response with both months identified correctly and correct values given within the ranges as shown below, ie  June 18.5 to 19.5 inclusive December 5 to 6 inclusive	! Months not written in full Accept unambiguous indications eg, for December • D Do not accept ambiguous indication that could refer to other months eg, for June • J
		or 2m	Makes not more than one error, but if the error is in identifying a month the pupil must follow through from that incorrect month eg  Jun 20 (error) Dec 6	! Dates given Ignore eg, for June accept • June 15th ! Follow through Note that follow through must be applied from incorrect months. Ranges for correct values are shown below
			June 19 February (error) 10	Jan 6.5 to 7.5 inclusive  Feb 9.5 to 10 inclusive  Mar 12 to 12.5 inclusive  Apr 15 to 16 inclusive  May 17.75 to 18.25 inclusive
		or 1m	Makes not more than two errors or omissions, but if the error is in identifying month(s) the pupil must follow through from that incorrect month(s) eg  ■ June  12 (error)  Dec 7 (error)  ■ July (error)	(Jun 18.5 to 19.5 inclusive) Jul 17.5 to 18 inclusive Aug 15 to 15.5 inclusive Sep 12 to 12.5 inclusive Oct 9 to 9.5 inclusive Nov 6.5 to 7.5 inclusive (Dec 5 to 6 inclusive)
			18 Oct (error) 9 • June 12 (error) Jan (error) 7	! Months omitted or months identified ambiguously  Treat each omission or ambiguous response as one error eg, for 2m accept  • J (ambiguous)  19 Dec 5.8 eg, for 1m accept  • (omits)  19 (omits) 5.8

Key Stage 3: 2005 Paper 2 Level 3-5

Tier	lier & Question				Mobile phones	
3-5	3-5 4-6 5-7 6-8					
13	6	5			Correct response	Additional guidance
				1m	Gives a value between 1 and 2 inclusive	! 'Million' repeated eg, for the first mark
				1m	Gives a value between 49.5 and 50.5 inclusive	• 1½ million • 1500000 Condone
	l		Ш	1m	Gives a value between 10 and 12 inclusive	

## Key Stage 3: 2005 Paper 2 Level 4-6

5.

Tier	lier & Question		tion		Mobile ph		
3-5	1-5 4-6 5-7 6-8				Wobile priorit		
13	6	6	Ш		Correct response	Additional guidance	
				1m	Gives a value between 1 and 2 inclusive	! 'Million' repeated eg, for the first mark	
				1m	Gives a value between 49.5 and 50.5 inclusive	• 1½ million • 1500000 Condone	
				1m	Gives a value between 10 and 12 inclusive		